



# भारत का राजपत्र The Gazette of India

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नई दिल्ली, मई 22—मई 28 2004 (ज्येष्ठ 1, 1926)

No. 21]

NEW DELHI, SATURDAY, MAY 22—MAY 28, 2004 (JYAISTHA 1, 1926)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2

### [PART III—SECTION 2]

[पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस]

[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

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PATENTS AND DESIGNS  
Kolkata, the 22th May 2004

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2587 1257, 2587 1258.  
Fax No. (011) 2587 1256.  
E-mail: delhipatent@vsnl.net

3. Patent Office Branch,  
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Fax Nos. (044) 2431 4750/4751.  
E-mail. patentchennai @ vsnl. net

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Rest of India

Telegraphic Address "PATENTS"  
Phone Nos. (033) 2247 4401/4402/4403.

Fax Nos. (033) 2247 3851, 2240 1353.

E-mail. patentin @ vsnl. com  
patindia @ glasc101.vsnl.net.in

Website : http://www.Ipindia.nic.in

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### पेटेंट कार्यालय

एकस्व तथा अभिकल्प

कोलकाता, दिनांक 22 मई 2004

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कोलकाता में अवस्थित है तथा मुम्बई, दिल्ली एवं चेन्नई में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं:--

1. पेटेंट कार्यालय शाखा,  
टोडी इस्टेट, तीसरा तल,  
सन मिल कम्पाउंड,  
लोअर परेल (वेस्ट),  
मुम्बई - 400 013 ।

गुजरात, महाराष्ट्र, मध्य प्रदेश तथा  
गोआ राज्य क्षेत्र एवं  
संघ शासित क्षेत्र, दमन तथा दीव एवं  
दादर और नगर हवेली ।

तार पता : "पेटेंटफिस"

फोन : (022) 2492 4058, 2496 1370, 2490 3684, 2490 3852

फैक्स : (022) 2495 0623, 2490 3852

ई. मेल : patnum@vsnl.net

2. पेटेंट कार्यालय शाखा,  
डब्ल्यू-5, वेस्ट पटेल नगर,  
नई दिल्ली - 110 008 ।

हरियाणा, हिमाचल प्रदेश, जम्मू  
तथा कश्मीर, पंजाब, राजस्थान,  
उत्तर प्रदेश तथा दिल्ली राज्य  
क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ ।

तार पता : "पेटेंटफिक"

फोन : (011) 2587 1255, 2587 1256, 2587 1257,  
2587 1258.

फैक्स : (011) 2587 1256.

ई. मेल : delhipatent@vsnl.net

3. पेटेंट कार्यालय शाखा,

गुना कम्प्लेक्स, छत्र तल, एनेक्स-II,  
443, अन्नासलाई, तेनामपेट,  
चेन्नई - 600 018 ।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु  
तथा पाण्डिचेरी राज्य क्षेत्र एवं संघ  
शासित क्षेत्र लक्षद्वीप, मिनीकाय तथा एमिनिदिव द्वीप ।  
तार पता - "पेटेंटोफिक"

फोन : (044) 2431 4324/4325/4326.

फैक्स : (044) 2431 4750/4751.

ई. मेल : patentchennai@vsnl.net

4. पेटेंट कार्यालय (प्रधान कार्यालय),  
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय  
भवन, 5वां, 6वां व 7वां तल,  
234/4, आचार्य जगदीश बोस मार्ग,  
कोलकाता - 700 020 ।

भारत का अवशेष क्षेत्र ।

तार पता - "पेटेंट्स"

फोन : (033) 2247 4401/4402/4403.

फैक्स : (033) 2247 3851, 2240 1353.

ई. मेल : patentin@vsnl.com

patindia@glasc101.vsnl.net.in

वेब साइट : http://Ipindia.nic.in

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2002 अथवा पेटेंट नियम, 2003 द्वारा अपेक्षित सभी आवेदन, सूचनाएं, विवरण या अन्य दस्तावेज या कोई फीस पेटेंट कार्यालय के केवल समुचित कार्यालय में ही ग्रहण किए जाएंगे ।

शुल्क : शुल्कों की अदायगी या तो नकद की जाएगी अथवा जहां उपयुक्त कार्यालय अवस्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक, पेटेंट को भुगतान योग्य बैंक ड्राफ्ट अथवा चैक द्वारा की जा सकती है ।

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

- (21) Application No. 636/CAL/2002 A (22) Date of filing of : 18/11/2002 application  
(54) Title of the Invention : "EYE POWER TESTING METER."

(51) International classification : A61B 3/10 (30) Priority Data : (31) Document No. (32) Date : (33) Name of convention country : (66) Filed U/s 5(2) :NIL (61) Patent of addition to application No. NA (62) Filed on :NA (63) Divisional to Application No. :NIL (64) Filed on :NA	(71) Name of the Applicant : KAR SWAPAN BIKASH, C/O. LATE HARISH CHANDRA KAR, SHYAMALI BAZAR, P.O. KUNJABAN, AGARTALA, TRIPURA (W), INDIA PIN- 799006. (72) Name of the Inventors : KAR SWAPAN BIKASH
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(57) Abstract : Eye power testing meter is an electrically operated optical instrument to measure the power of lens required for eye of a person by easy electrical operation with the help of liquid lens. Chamber is closed by flat transparent glass and transparent synthetic membrane. This chamber can be rotated as desired. The pointer will indicate the power of lens required on the scale. The pointer is associated with suitable gear by pulley and belt, which helps in displacement.

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

- (21) Application No. 637/CAL/2002 A (22) Date of filing of : 18/11/2002 application  
(54) Title of the Invention : "THERMAL BARRIER CERAMIC TITANIA (TiO<sub>2</sub>) COATED BLAST FURNACE (BF) TUYERES FOR APPLICATION UNDER COAL DUST INJECTION (CDI) CONDITIONS."

(51) International classification : F27D 3/00 (30) Priority Data : (31) Document No. (32) Date : (33) Name of convention country : (66) Filed U/s 5(2) :NIL (61) Patent of addition to application No. NA (62) Filed on :NA (63) Divisional to Application No. :NIL (64) Filed on :NA	(71) Name of the Applicant : STEEL AUTHORITY OF INDIA LIMITED, RESEARCH & DEVELOPMENT CENTRE FOR IRON & STEEL, DORANDA, RANCHI - 834002, STATE OF JHARKHAND, INDIA. (72) Name of the Inventors : 1. POPLI ANIL MOHAN, 2. SINGH VIJAY KUMAR, 3. SRIKANTI SRIKANTH, 4. BHATTACHARYYA AMITABH, 5. MISHRA KUNJ BIHARI.
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(57) Abstract : There is proposed improved copper tuyeres for use in blast furnace operations having a bond coat or Ni-Cr-Al alloy in the weight ration of 19:5:1 deposited on the bare copper surface and a topcoat of ceramic titania and a method for the manufacture of the same.

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. 638/CAL/2002 A

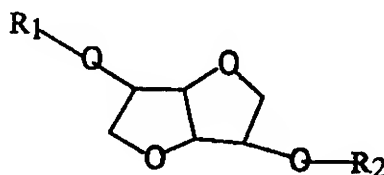
(22) Date of filing of : 18/11/2002  
application

(54) Title of the Invention : "A PROCESS FOR MANUFACTURING OF THE PARENTERAL PREPARATION OF COX 2 INHIBITOR."

<p>(51) International classification : A61P 35/00 (30) Priority Data : (31) Document No. (32) Date : (33) Name of convention country : (66) Filed U/s 5(2) :NIL (61) Patent of addition to application No. NA (62) Filed on :NA (63) Divisional to Application No. :610/CAL/2001 (64) Filed on :25/10/2001</p>	<p>(71) Name of the Applicant : 1. PATEL DINESH SHANTILAL OF 5, HARISH MUKHERJEE ROAD, KOLKATA- 700 025, P. O. BHOWNIPURE, STATE OF WEST BENGAL, INDIA, 2. PATEL SACHIN DINESH, 3. KURANI SHASHIKANT PRABHUDAS, OF 11/12 UDYOG NAGAR, S. V. ROAD, GOREGAON (WEST), MUMBAI- 400 104, STATE OF MAHARASHTRA, INDIA.</p> <p>(72) Name of the Inventors : 1. PATEL DINESH SHANTILAL, 2. PATEL SACHIN DINESH, 3. KURANI SHASHIKANT PRABHUDAS.</p>
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(57) Abstract :

A process for manufacturing of the parenteral preparation of COX 2 inhibitor preferably for parenteral administration comprise of selective active COX 2 inhibitors selected from Celecoxib, Rofecoxib and their analogues dissolved in a selective isosorbide type solvent of following general formula I



**FORMULA I**

where R<sub>1</sub> and R<sub>2</sub> are hydrogen or alkyl chains containing 1 – 3 carbons or acetate group.

The process is a simple and cost effective process of manufacture of a clear, stable novel pharmaceutical preparation of selective cyclooxygenase II inhibitors (COX 2) inhibitors in the parenteral form for the treatment of pain & inflammatory conditions arising because of cyclooxygenase -2 activity.

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. 639/CAL/2002 A

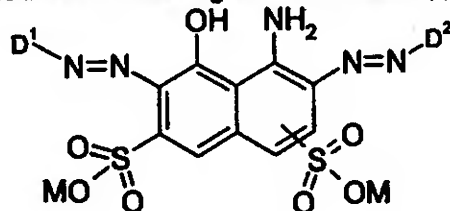
(22) Date of filing of : 18/11/2002  
application

(54) Title of the Invention : "MIXTURES OF FIBER-REACTIVE BISAZO DYES AND USE THEREOF."

<p>(51) International classification : C09B 67/00 (30) Priority Data : (31) Document No. 10159085.7 (32) Date : 01/12/2001 (33) Name of convention country : GERMANY (66) Filed U/s 5(2) : NIL (61) Patent of addition to application No. NA (62) Filed on : NA (63) Divisional to Application No. : NIL (64) Filed on : NA</p>	<p>(71) Name of the Applicant : DYSTAR TEXTILFARBEN GMBH &amp; CO. DEUTSCHLAND KG., OF D-65926 FRANKFURT AM MAIN, GERMANY.  (72) Name of the Inventors : 1. EICHHORN JOACHIM, 2. MROTZECH UWE, 3. RUSS WERNER..</p>
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(57) Abstract :

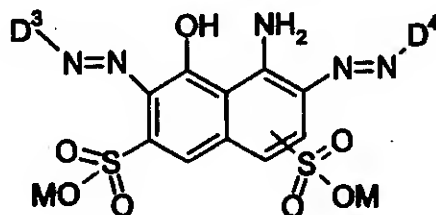
Reactive dye mixtures including one or more disazo dyes of the hereinbelow indicated and defined general formula (I)



(I)

and one or more disazo dyes of the hereinbelow indicated and defined general formula (II)

10



(II)

where D¹, D², D³, D⁴ and M are each as defined in claim 1.

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. 642/CAL/2002 A

(22) Date of filing of : 18/11/2002  
application

(54) Title of the Invention : "METHOD AND APPARATUS TO AMALGAMATE A COMPOUND OF VITREOUS MATERIAL."

<p>(51) International classification : C03B 5/00, 11/00  (30) Priority Data :  (31) Document No. UD 2001 A 000190  (32) Date : 20/11/2001  (33) Name of convention country : ITALY  (66) Filed U/s 5(2) :NIL  (61) Patent of addition to application No. NA  (62) Filed on :NA  (63) Divisional to Application No. :NIL  (64) Filed on :NA</p>	<p>(71) Name of the Applicant : BISAZZA SPA, OF ZONA INDUSTRIALE DEL COSA, 6-33097, SPILIMBERGO (PN), ITALY  (72) Name of the Inventors :  BISAZZA GIANCARLO</p>
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(57) Abstract : Apparatus to amalgamate a paste of vitreous material in the molten state with an additive material in the form of granules, scales, slivers or filaments, made of metal, of other types of glass or other material in order to obtain a vitreous compound. The apparatus comprises containing means (11) to contain the paste of vitreous material, mixing means (15) to convey the vitreous compound downwards, in its molten state, towards rolling means (12) to produce manufactured articles. The mixing means (15) comprise at least a first pair of mixing cylinders (19a, 19b) having the respective axes of rotation (20a, 20b) arranged substantially horizontal, parallel to each other and substantially parallel, or slightly inclined, with respect to the direction in which a rolling force is applied by said rolling means (12).

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. 643/CAL/2002 A

(22) Date of filing of : 18/11/2002  
application

(54) Title of the Invention : "NOX CATALYST/TRAP AND METHOD OF USING THE SAME."

<p>(51) International classification : B01D 53/94 (30) Priority Data : (31) Document No. 08/500, 657 (32) Date : 12/07/95 (33) Name of convention country : U.S.A. (66) Filed U/s 5(2) :NIL (61) Patent of addition to application No. NA (62) Filed on :NA (63) Divisional to Application No. :1242/CAL/96 (64) Filed on :08/07/96</p>	<p>(71) Name of the Applicant : ENGELHARD CORPORATION, OF 101 WOOD AVENUE, ISELIN, NEW JERSEY 08830 U.S.A.  (72) Name of the Inventors : 1. DEEBA MICHEL, 2. FEELEY JENNIFER S., 3. FARRAUTO ROBERT J.,</p>
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(57) Abstract : A NOx abatement composition comprises a NOx abatement catalyst and NOx sorbent material which are dispersed in proximity to but segregated from each other on a common refractory carrier member (10). The NOx sorbent material comprises a basic oxygenated metal compound and optionally further comprises ceria. The NOx abatement catalyst contains a catalytic metal component including a platinum metal catalytic component. The catalytic metal component is segregated from the NOx sorbent material, which may be one or more of metal oxides, metal carbonates, metal hydroxides and mixed metal oxides. At least the catalytic metal component and the NOx sorbent material must be on, or comprise separate, particles; the particle may either be admixed or may be disposed in separate layers (20a, 20b) on the carrier member (10). A NOx abatement method employs the composition and includes periodically adjusting the gas being treated between lean and stoichiometric/rich operating cycles.

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. 644/CAL/2002 A

(22) Date of filing of : 20/11/2002  
application

(54) Title of the Invention : "FLAVOUR COMPOSITIONS."

<p>(51) International classification : C11B 9/00, A23L 1/226 (30) Priority Data : (31) Document No. GB0226490.1 (32) Date : 14/11/2002 (33) Name of convention country : GB (66) Filed U/s 5(2) :NIL (61) Patent of addition to application No. NA (62) Filed on :NA (63) Divisional to Application No. :NA (64) Filed on :NA</p>	<p>(71) Name of the Applicant : QUEST INTERNATIONAL B.V., OF HUIZERSTRAATWEG 28, 1411 GP NAARDEN THE NETHERLANDS.  (72) Name of the Inventors : HAINES JAN THOMAS.</p>
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(57) Abstract : A flavour composition, which can contain no or substantially no cinnamic aldehyde, comprises cinnamic alcohol and eugenol, the cinnamic alcohol and eugenol together comprising at least 3% by weight of the total weight of the composition, the weight ration of cinnamic alcohol to eugenol being in the range 0.25:1 to 3.5:1. The composition has a cinnamon flavour and finds use in consumer product, particularly oral care products.

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. 647/CAL/2002 A (22) Date of filing of : 21/11/2002 application

(54) Title of the Invention : "SOLUTION DRYING SYSTEM."

(51) International classification : G01N 27/416, 27/327, 27/42 (30) Priority Data : (31) Document No. 09/996, 631 (32) Date : 28/11/2001 (33) Name of convention country : U.S.A. (66) Filed U/s 5(2) :NIL (61) Patent of addition to application No. NA (62) Filed on :NA (63) Divisional to Application No. :NA (64) Filed on :NA	(71) Name of the Applicant : LIFESCAN, INC., OF 1000 GIBRALTAR DRIVE, MS 3D, MILPITAS, CALIFORNIA 95035, U.S.A.  (72) Name of the Inventors : 1. DICK, KENNETH, W., 2. OTAKE, GARY, 3. JESSEN, AARON.
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(57) Abstract : A system for drying chemical reagents on material, particularly for producing product used in making reagent test strips is described. By drying selected chemicals on substrate drawn past a radiant energy source (preferably an IR source), rapid drying may be achieved while obtaining high-quality product. Airflow sufficient to break or disturb a vapour boundary layer above drying solution may be provided to increase drying speeds. Any airflow provided should not disturb the surface of the solution. Still, air-impingement drying techniques may be employed in the system to finish drying reagent material once it is sufficiently dry to be stable in shape. The substrate upon which chemicals are dried may include a reflective coating to facilitate its use with high levels of radiant energy. A metallic or metallized substrate is advantageously used in producing electrochemical test strips. Such test strips may be used in conjunction with various kits and be conveniently read using known hand-held meters.



**Publication After 18 months.**

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

- (21) Application No. 648/CAL/2002 A (22) Date of filing of : 21/11/2002  
application  
(54) Title of the Invention : "SOLUTION STRIPING SYSTEM."

(51) International classification : B05D 03/00 (30) Priority Data : (31) Document No. 09/997, 315 (32) Date : 28/11/2001 (33) Name of convention country : U.S.A. (66) Filed U/s 5(2) :NIL (61) Patent of addition to application No. NA (62) Filed on :NA (63) Divisional to Application No. :NA (64) Filed on :NA	(71) Name of the Applicant : LIFESCAN, INC., OF 1000 GIBRALTAR DRIVE, MS 3D, MILPITAS, CALIFORNIA 95035, U.S.A. (72) Name of the Inventors : 1. DICK, KENNETH, W., 2. OTAKE, GARY, 3. JESSEN, AARON.
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(57) Abstract : A system for laying down stripes of solution on substrate is described. The substrate preferably comprises a web of material set on a backing roller passed by a specially configured die. The die includes at least a mouth with lips extending beyond a face or body of the die. The die is adapted to avoid fluid leakage there from. Upper and lower portions of the die defining the mouth are preferably substantially flat and mirror images of each other. The lips are preferably placed in close proximity to the material on which the solution is to be deposited. Solution passing through the mouth of the die is directed to the webbing and deposited in a substantially constant thickness stripe or band. Often, the solution comprised a reagent -type solution. The solution coating is typically dried onto the substrate. Dried product may then be used in reagent test strip production.

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

- (21) Application No. 649/CAL/2002 A (22) Date of filing of : 22/11/2002 application  
(54) Title of the Invention : "HEAT-DISSIPATING MODULE."

(51) International classification : H01L 23/00 (30) Priority Data : (31) Document No. (32) Date : (33) Name of convention country : (66) Filed U/s 5(2) :NIL (61) Patent of addition to application No. NA (62) Filed on :NA (63) Divisional to Application No. :NA (64) Filed on :NA	(71) Name of the Applicant : CHIN-KUANG LUO, TAIWAN NATIONAL OF 5F, NO. 56, MIN-CHUAN RD., CHUNG DIST., TAICHUNG CITY, TAIWAN.  (72) Name of the Inventors : CHIN-KUANG LUO
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(57) Abstract : In a heat-dissipating module for an electronic device, a heat-conducting unit (5, 5A, 5B, 5C, 5D) is adapted to be disposed in close contact with a heat-generating component (3), and includes inner and outer tubes (51, 51A, 51B, 51C, 51D), (52, 52A, 52B, 52C, 52D) that cooperatively confine an enclosed chamber (520) filled with a thermal superconductor material (10). A fan unit (6) is disposed to generate currents of air through a chamber (510) confined by the inner tube (51, 51A, 51B, 51C, 51D) so as to dissipate the heat transferred to the heat-conducting unit (5, 5A, 5B, 5C, 5D) from the heat-generating component (3). Alternatively, the heat-conducting unit (5, 5A, 5B, 5C, 5D) can be configured into a tubular member, and a heat-dissipating unit (7, 7A, 7B, 7C, 7D, 8, 8', 8B, 8C, 8D) is provided on the tubular member to help dissipate heat.

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

- (21) Application No. 651/CAL/2002 A (22) Date of filing of : 22/11/2002 application  
(54) Title of the Invention : "REFRIGERATOR."

(51) International classification : F25D 17/08 (30) Priority Data : (31) Document No. 2002-52845 (32) Date : 03/09/2002 (33) Name of convention country : KOREA (66) Filed U/s 5(2) :NIL (61) Patent of addition to application No. NA (62) Filed on :NA (63) Divisional to Application No. :NIL (64) Filed on :NA	(71) Name of the Applicant : SAMSUNG ELECTRONICS CO. LTD., OF 416, MAETAN-DONG, PALDAL-GU, SUWON-CITY, KYUNGKI-DO KOREA.  (72) Name of the Inventors : 1. KANG HYO-SIK, 2. KANG HEE-CHEOL, 3. CHOI SANG-GEUN, 4. HAN DUCK-HO, 5. YOON SU-HAN.
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(57) Abstract : Disclosed is a refrigerator for uniformly cooling the interior of its chilling chamber. The refrigerator provided with a cabinet and an intermediate partition for dividing the cabinet into the freezing and chilling chambers comprises side cool air discharge holes formed on the side walls of the chilling chamber so as to supply the cool air to the chilling chamber, first cool air guide paths installed within the intermediate partition so as to receive the cool air from the cool air duct and guide the received cool air to the sides of the refrigerator to supply the cool air to the side cool air discharge holes, and second cool air guide paths formed on the side walls of the chilling chamber so as to connect the first cool air guide paths to the corresponding side cool air discharge holes, thereby discharging the cool air to the chilling chamber from its back portion and side walls, and uniformly cooling the chilling chamber.

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. IN/PCT/2002/01410A

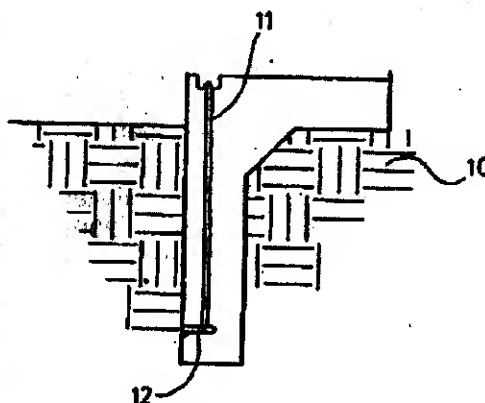
(22) Date of filing of : 18/11/2002  
application

(54) Title of the Invention : "IMPROVEMENTS TO MODULAR BUILDINGS AND MATERIALS USED IN THEIR CONSTRUCTION."

<p>(51) International classification : E04B 1/14, 7/20, E04D 3/35 (30) Priority Data : (31) Document No. 0009521.6 (32) Date : 18/04/2000 (33) Name of convention country : GB (66) Filed U/s 5(2) :NIL (61) Patent of addition to application No. NA (62) Filed on :NA (63) Divisional to Application No. :NIL (64) Filed on :NA</p>	<p>(71) Name of the Applicant : ABERSHAM TECHNOLOGIES LIMITED, OF P.O. BOX 569, SUITE 2A, EUROLIFE BUILDING, 1 CORRAL ROAD, GIBRALTAR.  (72) Name of the Inventors : PARRISH MALCOLM</p>
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(57) Abstract :

A modular building comprising: a foundation floor having secured therein a plurality of anchor elements; a plurality of wall-retaining track elements adapted to engage wall panels of the building, the track elements being securable to the foundation floor so as to define the position of at least the load bearing walls of the building; wall panels locatable with respect to the track elements, each panel including at least one channel or duct formed therein parallel to a longitudinal axis thereof and at least one channel or duct formed therein disposed perpendicularly to and laterally of the longitudinal axis; and a plurality of securing members adapted to pass through and locatable within said channels or ducts, the securing members being anchored at each end thereof so as to maintain the panels in fixed relationship to one another.



Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. IN/PCT/2002/01411A

(22) Date of filing of : 18/11/2002  
application

(54) Title of the Invention : "GLOVE DONNING SYSTEM."

(51) International classification : A61B 19/04,  
A47G 25/90

(30) Priority Data :

(31) Document No. 136378

(32) Date : 25/05/2000

(33) Name of convention country : ISRAEL

(66) Filed U/s 5(2) :NIL

(61) Patent of addition to application No. NA

(62) Filed on :NA

(63) Divisional to Application No. :NIL

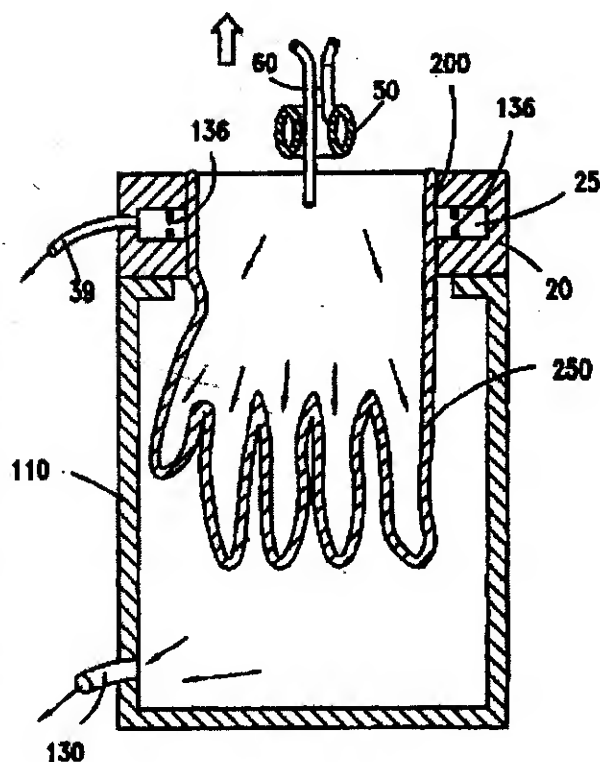
(64) Filed on :NA

(71) Name of the Applicant : SOLDON  
SYSTEMS (D.M.S.) LTD., OF GRANOT,  
M.P. HEFER 38100, ISRAEL.

(72) Name of the Inventors :  
SINAI DAN

(57) Abstract :

A glove donning system and method, the arrangement having typically a vacuum wand (42) for grasping the outer skin of the cuff portion (200) of a glove, (250) after which the wand (42) together with the glove (250) is suitably transported to a vacuum chamber (110), where the cuff portion (200) is aligned with the rim of the opening of the vacuum chamber (110). By grasping only the outer skin of the glove (250), the cuff portion (200) is gently opened sufficiently to enable a deflated inflatable ring (50) to be inserted into the cuff portion (200). The ring (50) is then inflated while positioned inside the cuff portion (200), which is thereby expanded until it touches the rim of the vacuum chamber (110). The rim is provided with a suction ring (20) capable of generating sufficient suction to keep the cuff (200) of the glove (250) pressed against the rim (20), at which point the inflatable ring (50) may be deflated and removed. A vacuum may then be applied to the chamber (110), inflating the glove and thus enabling a hand to be inserted therein. A donning device may be fitted with a pair of such systems, one for each hand, and further provided with suitable means for stacking and delivering on demand one glove to each vacuum chamber.



Publication After 18 months

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. IN/PCT/2002/01412 A

(22) Date of filing of: 18/11/2002  
application

(54) Title of the Invention : "COMPOSITE MATERIAL FOR CONSTRUCTION OF MODULAR BUILDINGS."

(51) International classification : C04B 18/08, B29C 70/66, B32B 27/04, 27/20, E04C 2/296, 2/24

(30) Priority Data :

(31) Document No. 0009521.6

(32) Date : 18/04/2000

(33) Name of convention country : GB

(66) Filed U/s 5(2) :NIL

(61) Patent of addition to application No. NA

(62) Filed on :NA

(63) Divisional to Application No. :NIL

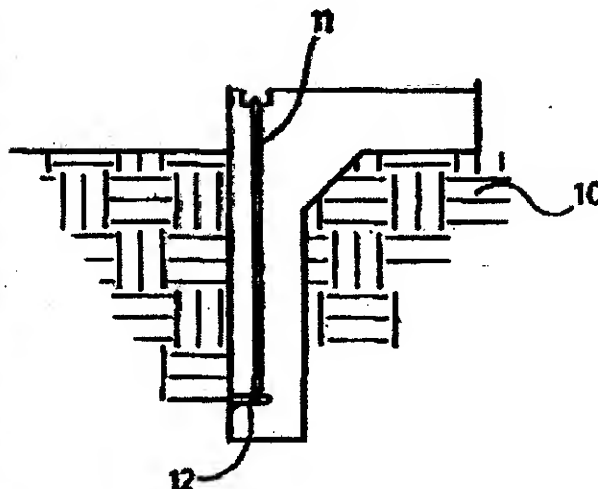
(64) Filed on :NA

(71) Name of the Applicant : ABERSEHAM TECHNOLOGIES LIMITED, OF P.O. BOX 569, SUITE 2A, EUROLIFE BUILDING, 1 CORRAL ROAD, GIBRALTAR.

(72) Name of the Inventors :  
PARRISH MALCOLM

(57) Abstract :

A composite material comprising silica cenospheres and a resin, whereby the resin is adapted to bind the cenospheres into a solid mass and retain them in a desired shape into which the composite material is to be formed. The resin is a polymeric compound, formed in situ around the cenospheres. The composite material can be used to form constructional elements used in modular buildings. As such they can include fire retardant materials to improve the safety of the buildings.



Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. IN/PCT/2002/01413 A

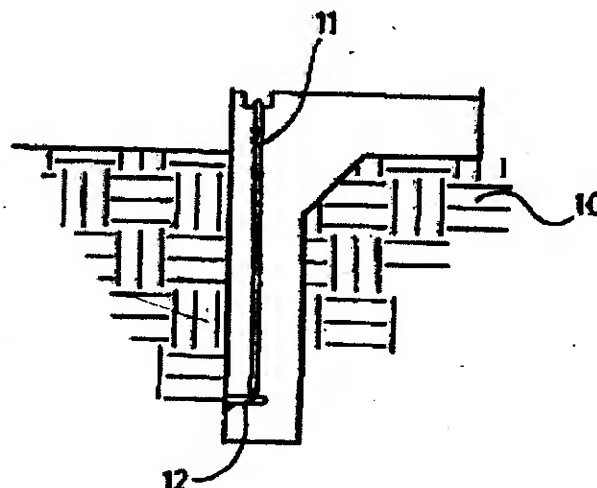
(22) Date of filing of : 18/11/2002  
application

(54) Title of the Invention : "IMPROVEMENTS TO MODULAR BUILDINGS, CONSTRUCTION ELEMENTS, METHODS AND MATERIALS THEREFOR."

<p>(51) International classification : C04B 26/02 (30) Priority Data : (31) Document No. 0009521.6 (32) Date : 18/04/2000 (33) Name of convention country : GB (66) Filed U/s 5(2) :NIL (61) Patent of addition to application No. NA (62) Filed on :NA (63) Divisional to Application No. :NIL (64) Filed on :NA</p>	<p>(71) Name of the Applicant : ABERSHAM TECHNOLOGIES LIMITED., OF P.O. BOX 569, SUITE 2A, EUROLIFE BUILDING, 1 CORRAL ROAD, GIBRALTAR.  (72) Name of the Inventors : PARRISH MALCOLM</p>
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(57) Abstract :

A construction element such as a wall or roof panel for a building, the construction element being formed from a composite material comprising silica cenospheres and a resin, the resin binding the cenospheres into a solid mass and retains them in a desired shape defining the construction element. A second composite material can be overlaid and bonded to at least a part of the surface of the construction element. The second composite material has a number of layers bonded together. Colouring agents and fire retardant materials can be included within the second composite material.



**Publication After 18 months.**

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

- (21) Application No. IN/PCT/2002/01414 A (22) Date of filing of : 18/11/2002  
application  
(54) Title of the Invention : "INTEGRATED SAMPLE TESTING METER."

<p>(51) International classification : A61B 5/00 (30) Priority Data : (31) Document No. 60/280,321 (32) Date : 29/03/2001 (33) Name of convention country : U.S.A. (66) Filed U/s 5(2) :NIL (61) Patent of addition to application No. NA (62) Filed on :NA (63) Divisional to Application No. :NIL (64) Filed on :NA</p>	<p>(71) Name of the Applicant : INVERNESS MEDICAL LIMITED, BEECHWOOD PARK NORTH, INVERNESS IV2 3ED, GREAT BRITAIN. (72) Name of the Inventors : 1. MOERMAN, PIET, 2. SHAANAN, GAD, 3. MAINVILLE, PATRICK, 4. ORBAN, BENOIT, 5. COLEY, BENJAMIN, 6. FRANCOVICH, WALTER, 7. BODE, ANDREAS, 8. STIENE, MATTHIAS, 9. GRIFFITH, ALUN</p>
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(57) Abstract : An integrated sample testing meter, for instance for measuring blood, comprising a lancing device, an electrochemical sensor and a test strip cartridge disposed in a single modular housing. The test strip cartridge includes a stack of test strips suitable for performing an electrochemical or photometric analysis of a blood sample. The integrated test system automatically dispenses and positions a test strip in proximity to a lancet puncture site, automatically transfers a blood sample to the test strip from the lancet puncture site and automatically analyzes the blood sample after the test strip collects the sample from the puncture site

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. IN/PCT/2002/01415 A

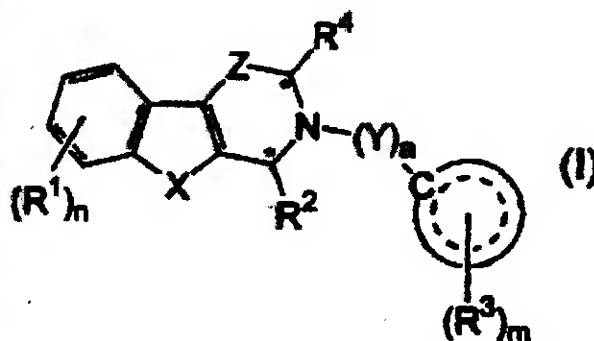
(22) Date of filing of : 18/11/2002  
application

(54) Title of the Invention : "β-CARBOLINE DERIVATIVES USEFUL AS INHIBITORS OF PHOSPHODIESTERASE."

<p>(51) International classification : (30) Priority Data : (31) Document No. :60/204,667 (32) Date : 17/05/2000 (33) Name of convention country : U.S.A. (36) Filed U/s 5(2) :NIL (61) Patent of addition to application No. NA (62) Filed on :NA (63) Divisional to Application No. :NIL (64) Filed on :NA</p>	<p>(71) Name of the Applicant : ORTHO-MCNEIL PHARMACEUTICAL, INC., UNITED STATES OF AMERICA, U.S. ROUTE 202, RARITAN, NEW JERSEY 08869, A DELAWARE CORPORATION.  (72) Name of the Inventors : 1. SUL, ZHIHUA, 2. MARK, J. MACIELAG</p>
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**(57) Abstract :**

The present invention relates to novel beta-carboline derivatives of the general formula (I), wherein all the variables are as described within the specification, useful as phosphodiesterase inhibitors. The present invention further relates to use of the described derivatives for the treatment of diseases and conditions related to PDE, for example male erectile dysfunction.





Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. IN/PCT/2002/01416 A

(22) Date of filing of : 18/11/2002  
application

(54) Title of the Invention : "SUBSTITUTED PYRROLOPYRIDINONE DERIVATIVES USEFUL AS PHOSPHODIESTERASE INHIBITORS."

(51) International classification : C07D  
471/04, 491/14, 495/14, A61K 31/437, A61P  
15/00

(30) Priority Data :

(31) Document No. 60/204,646

(32) Date : 17/05/2000

(33) Name of convention country : U.S.A.

(66) Filed U/s 5(2) :NIL

(61) Patent of addition to application No. NA

(62) Filed on :NA

(63) Divisional to Application No. :NIL

(64) Filed on :NA

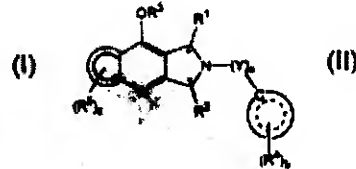
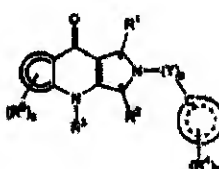
(71) Name of the Applicant : ORTHO-MCNEIL PHARMACEUTICAL, INC., UNITED STATES OF AMERICA, U.S. ROUTE 202, RARITAN, NEW JERSEY 08869, A DELAWARE CORPORATION.

(72) Name of the Inventors :

1. SUI, ZHIHUA,
2. MACIELAG, MARK, J.,
3. GUAN, JIHUA,
4. JIANG, WEIQIN,
5. LANTER, JAMES, C.,

(57) Abstract :

The invention relates to novel pyrrolopyridinone derivatives of the formula (I) or (II): pharmaceutical compositions containing the compounds and their use for the treatment of sexual dysfunction.



Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

- (21) Application No. IN/PCT/2002/01417 A (22) Date of filing of : 20/11/2002 application  
(54) Title of the Invention : "INSULATION PRODUCT ESPECIALLY A THERMAL INSULATION PRODUCT, AND ITS MANUFACTURE."

(51) International classification : C03C 25/34 (30) Priority Data : (31) Document No. 00/07535 (32) Date : 13/06/2000 (33) Name of convention country : FR (66) Filed U/s 5(2) :NIL (61) Patent of addition to application No. NA (62) Filed on :NA (63) Divisional to Application No. :NIL (64) Filed on :NA	(71) Name of the Applicant : SAINT-GOBAIN ISOER, OF 18, AVENUE D' ALSACE, F-92400 COURBEVOIE, FRANCE. A FRANCE COMPANY.  (72) Name of the Inventors : 1. ESPIARD, PHILIPPE, 2. MAHIEUXE, BRUNO.
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- (57) Abstract : Insulating product based on mineral wool sized with a binder based on a phenol-formaldehyde resin, in which the binder comprises, as a mixture;

60 to 90 parts by weight or a phenol-formaldehyde resol having a free formaldehyde content of less than or equal to 25% by weight with respect to the dry weight of resin and a free phenol content of less than or equal to 2.5% by weight with respect to the dry weight of resin, obtained by condensation in basic medium of phenol (P) and formaldehyde (F) in an F/P molar ratio of around 2.5 to 4 until the condensation product neutralized by sulphuric acid has a water dilutability of greater than 500% and less than or equal to 1500%;

10 to 40 parts by weight of urea.

Use of such a sizing composition for manufacturing insulating products, while reducing the emissions of ammonia gas on the manufacturing line.

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

- (21) Application No. IN/PCT/2002/01418 A (22) Date of filing of : 20/11/2002 application  
(54) Title of the Invention : "A PROCESS FOR MANUFACTURING AUSTENITIC ALLOY."

(51) International classification : C22C 38/44 (30) Priority Data : (31) Document No. 0001921-6 (32) Date : 22/05/2000 (33) Name of convention country : SWEDEN (66) Filed U/s 5(2) :NIL (61) Patent of addition to application No. NA (62) Filed on :NA (63) Divisional to Application No. :NIL (64) Filed on :NA	(71) Name of the Applicant : SANDVIK AB., S-811 81 SANKDIKEN, SWEDEN.  (72) Name of the Inventors : 1. ULFVIN, CHARLOTTE, 2. WALDEN, BERTIL.
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- (57) Abstract : An austenitic alloy with the following composition, in weight-%: Cr 23-30; Ni 25-35; Mo 3-6; Mn 1-6; N 0-0.40; C up to 0.05; Si up to 1.0; S up to 0.02; Cu up to 3.0; and the balance iron and normally occurring impurities and additions.

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. IN/PCT/2002/01419 A

(22) Date of filing of : 20/11/2002  
application

(54) Title of the Invention : "PAVING BINDERS AND MANUFACTURING METHODS."

(51) International classification : C08L 95/00,  
C09D 195/00

(30) Priority Data :

(31) Document No. 09/576,476

(32) Date : 23/05/2000

(33) Name of convention country : U.S.A.

(66) Filed U/s 5(2) : NIL

(61) Patent of addition to application No. NA

(62) Filed on : NA

(63) Divisional to Application No. : NIL

(64) Filed on : NA

(71) Name of the Applicant : ROCK  
BINDERS, INC., OF 14100 NW 8<sup>TH</sup>  
AVENUE, VANCOUVER, WA 98685, U.S.A.

(72) Name of the Inventors :

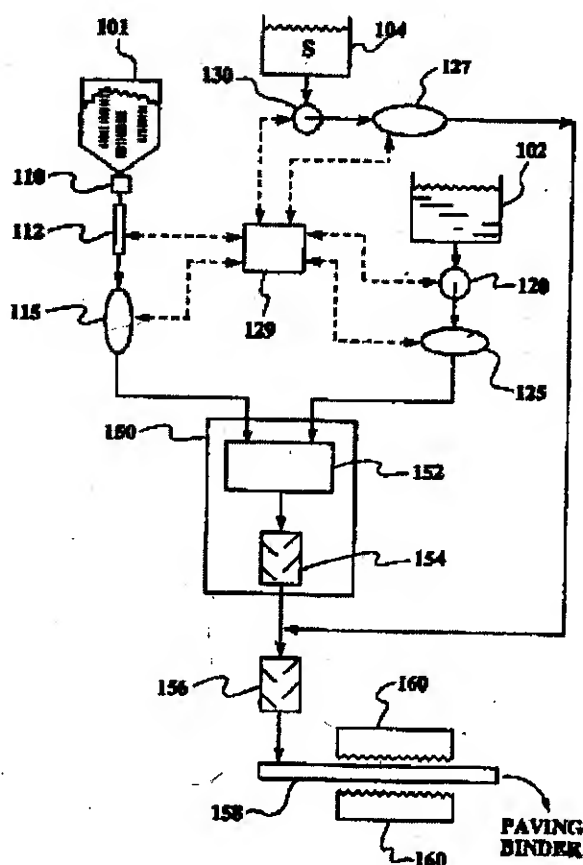
1. BAILEY WILLIAM R.,

2. PUGH NORM D.,

3. MCBEE WILLIAM C.

(57) Abstract :

Solid, low-cost paving binder prepared by admixing sulfur, paving grade asphalt (AC) asphalt, and a siliceous filler such as fly ash and silica material, and solidifying the product into preferably flaked, pellet or pastille forms. The solid paving binder has non-stick non-flow properties within a wide range of ambient temperatures, and it can be stored solid for subsequent use in paving applications.



Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

- (21) Application No. IN/PCT/2002/01420 A (22) Date of filing of : 20/11/2002 application  
(54) Title of the Invention : "FILTER DEVICES AND METHODS OF USE."

(51) International classification : B01D 39/00  
(30) Priority Data :  
(31) Document No. 60/204,714  
(32) Date : 16/05/2000  
(33) Name of convention country : U.S.A.  
(66) Filed U/s 5(2) : NIL  
(61) Patent of addition to application No. NA  
(62) Filed on : NA  
(63) Divisional to Application No. : NIL  
(64) Filed on : NA

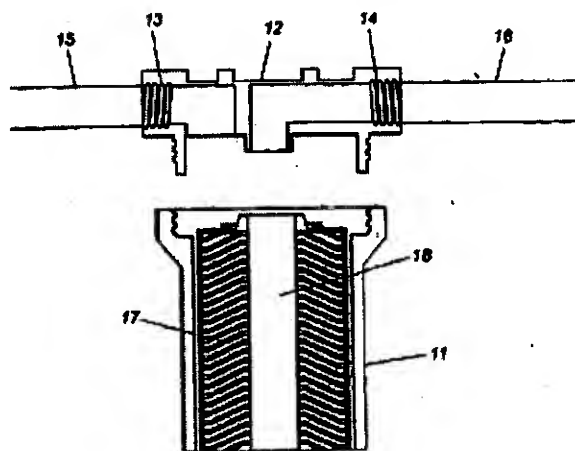
(71) Name of the Applicant :  
WATERVISIONS INTERNATIONAL, INC.,  
OF 110 INDUSTRIAL DRIVE, A2,  
CUMMING, GEORGIA 30040, U.S.A.

(72) Name of the Inventors :  
1. JOHNSTON ARTHUR W.,  
2. JOHNSTON ARTHUR F.,  
3. WILLIAMS FRANK A.,  
4. HUGHES KENNETH D.

(57) Abstract :

A method and device for the filtration and/or purification of fluids water or other solutions containing microbiological contaminants, such as fluids containing including bacteria and/or viruses, where the fluid is passed through a purification material composed of aluminosilicates and more preferably bauxite and absorption media in a fixed binder matrix.

(58)



**Publication After 18 months.**

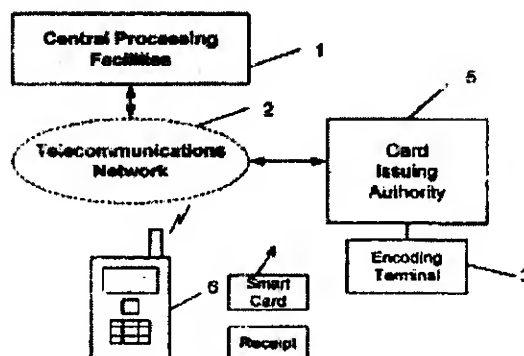
The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

- (21) **Application No.** IN/PCT/2002/01421 A (22) **Date of filing of :** 20/11/2002  
**application**  
 (54) **Title of the Invention :** "SECURE BIOMETRIC IDENTIFICATION"

(51) <b>International classification :</b> G06F 17/60, 12/14, G07F 19/00 (30) <b>Priority Data :</b> (31) <b>Document No.</b> PQ 7029 (32) <b>Date :</b> 20/04/2000 (33) <b>Name of convention country :</b> AUSTRALIA (66) <b>Filed U/s 5(2) :</b> NIL (61) <b>Patent of addition to application No.</b> NA (62) <b>Filed on :</b> NA (63) <b>Divisional to Application No. :</b> NIL (64) <b>Filed on :</b> NA	(71) <b>Name of the Applicant :</b> GROSVENOR LEISURE INCORPORATED, OF 102 AARTI CHAMBERS, MONT FLEURI, VICTORIA, MAHE, SEYCHELLES. (72) <b>Name of the Inventors :</b> TAYLOR BARRY JOHN
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**(57) Abstract :**

A method and device/terminal are disclosed for the positive identification of an individual which finds particular use for the secure purchasing of goods or services over a visual medium such as television, the Internet and EFTPOS systems. The terminal is a point-of-sale terminal (6) which includes a keyboard (7), a screen (8), a fingerprint reader (9), a smart card reader assembly (10) and a printhead assembly incorporated within the card reader assembly (10). The operating software of the terminal (6) includes code to decrypt encrypted information read from the smart card (4). An individual wishing to undertake a secure financial transaction first obtains a smart card (4) which incorporates encrypted biometric data and financial data of that individual. At the point of intended purchase, the card (4) is placed in the reader assembly (10) of the terminal (6). The account details and encrypted biometric data are read by the terminal (6). The appropriate fingerprint of the individual is then taken at the fingerprint reader (9) of the terminal (6) from which the encryption key is determined. The encrypted fingerprint data read from the card (4) is then decrypted using the encryption key just determined and the thus-decoded fingerprint data from the card (4) is compared with the fingerprint data obtained at the terminal (6). If the thus-read fingerprint data is identical with that decoded from the card (4), identification is deemed positive and the financial transaction proceeds.



Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. IN/PCT/2002/01422 A

(22) Date of filing of : 20/11/2002  
application

(54) Title of the Invention : "CARBIDE COATED STEEL ARTICLES AND METHOD OF MAKING THEM."

(51) International classification : C23C 16/00

(30) Priority Data :

(31) Document No. 60/214,965, 60/215,050, 60/215,129

(32) Date : 29/06/2000

(33) Name of convention country : U.S.A.

(66) Filed U/s 5(2) :NIL

(61) Patent of addition to application No. NA

(62) Filed on :NA

(63) Divisional to Application No. :NIL

(64) Filed on :NA

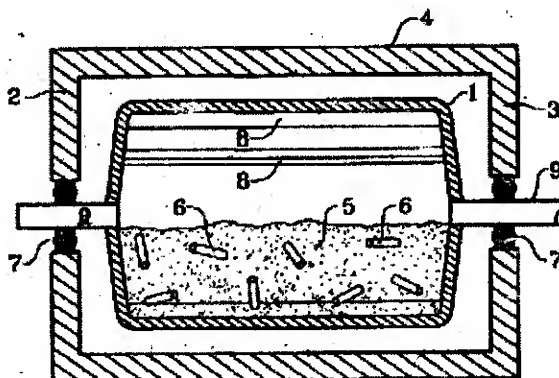
(71) Name of the Applicant : BORG WARNER INC., OF 3001 WEST BIG BEAVER ROAD, SUITE 200, TROY, MI 48064, U.S.A.

(72) Name of the Inventors :

1. WANG YUMIN,
2. HANAYAMA YOSHITO,
3. FORNELL DOUG,
4. TADA NAOSUMI,
5. MISHIMA KUNIIHIKO.

(57) Abstract :

Chain parts and other steel articles are provided with hard, wear-resistant carbide coatings by tumbling them in a heated retort with a particulate mix which includes a source of vanadium and/or niobium. The steel substrate comprises a steel having at least 0.3 % carbon, preferably 0.7-1.2 %. Where the chromium content of the steel is 4-12 %, preferably 4-8 %, the chemical deposition process includes drawing a small amount of chromium from the steel substrate into the vanadium or niobium carbide coating, where it is distributed substantially homogeneously, helping to provide adhesion strength to the coating.



Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. IN/PCT/2002/01423 A (22) Date of filing of : 21/11/2002 application

(54) Title of the Invention : "SYSTEM AND METHOD FOR PROVIDING PREPAID SERVICES VIA AN INTERNET PROTOCOL NETWORK SYSTEM."

(51) International classification : H04M 15/00

(30) Priority Data :

(31) Document No. 60/208,537

(32) Date : 01/06/2000

(33) Name of convention country : U.S.A.

(66) Filed U/s 5(2) : NIL

(61) Patent of addition to application No. NA

(62) Filed on : NA

(63) Divisional to Application No. : NIL

(64) Filed on : NA

(71) Name of the Applicant : WORLD COM, INC., OF 1133 19<sup>TH</sup> STREET, N.W. WASHINGTON, DC 20036 U.S.A.

(72) Name of the Inventors :

1. MOORE, RICHARD G.,

2. VOGNSEN, DAVID K.,

3. MURPHY, ANNA M.,

(57) Abstract : A system and method are disclosed for providing prepaid services via an open network architecture system having access to a network, such as the Internet via an Internet protocol. The architecture system is operated by a system operator and includes a customer profile database which stores various customer-related information, such as customer names and their respective payment and contact information, a plurality of databases each storing prepaid accounts for a particular prepaid service, such as telephony, Internet access, paging, and cellular, and web-site system hardware connected to the customer profile database and the plurality of databases and to a network, such as the Internet, for ubiquitously accessing the databases via the Internet for viewing and managing one's prepaid services, as well as purchasing additional prepaid services and/or usage rights. The architecture system further includes network hardware connected to the web-site system hardware for enabling outside system operators, e.g., wholesalers, online retailers, system developers and ISPs, to utilize the architecture system to brand their own prepaid services and offer them through the architecture system.

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. IN/PCT/2002/91424 A (22) Date of filing of : 21/11/2002 application

(54) Title of the Invention : "ATM MULTICASTING FOR DELIVERING INFORMATION OVER A NETWORK"

(51) International classification : H04L 12/00

(30) Priority Data :

(31) Document No. 60/210,257

(32) Date : 08/06/2000

(33) Name of convention country : U.S.A.

(66) Filed U/s 5(2) :NIL

(61) Patent of addition to application No. NA

(62) Filed on :NA

(63) Divisional to Application No. :NIL

(64) Filed on :NA

(71) Name of the Applicant : THOMSON LICENSING S.A., OF 46, QUAI ALPEONSE LE GALLO, F-92648 BOULOGNE CEDEX, FRANCE.

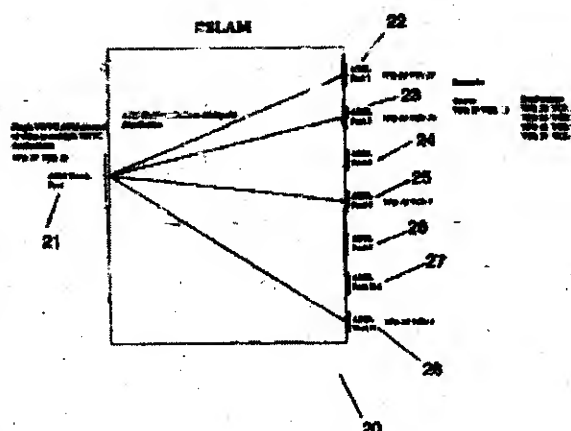
(72) Name of the Inventors :

1. RICHARDSON, JOHN, WILLIAM,

2. RAMASWAMY, KUMAR.

(57) Abstract :

A method that provides for multicast delivery of information in a DSL network includes creating transmission paths between a single source port and multiple destination ports in a DSL network; receiving information at the source port; determining which of the destination ports is to receive the information; and distributing the information from the source port to selective ones of the destination ports based on the prior referencing step. A DSL system for providing multicast delivery of information includes an ATM network layer for sending information, a digital subscriber line access multiplexer (DSLAM) coupled to the ATM network layer for receiving the information, and a network control system for controlling selective multiplexing of the information through the digital subscriber line access multiplexer (DSLAM).





Publication After 18 months.

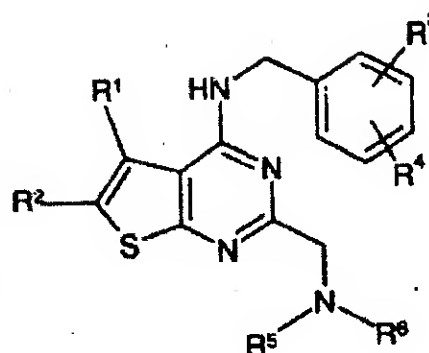
The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

- (21) Application No. IN/PCT/2002/01425 A (22) Date of filing of : 21/11/2002 application  
(54) Title of the Invention : "2-AMINOALKYLTHIENO[2,3-D]PYRIMIDINES."

<p>(51) International classification : C07D 495/04, A61K 31/505, A61P 9/00, 43/00 (30) Priority Data : (31) Document No. 100 31 585.2 (32) Date : 29/06/2000 (33) Name of convention country : DE (66) Filed U/s 5(2) : NIL (61) Patent of addition to application No. NA (62) Filed on : NA (63) Divisional to Application No. : NIL (64) Filed on : NA</p>	<p>(71) Name of the Applicant : MERCK PATENT GMBH, OF FRANKFURTER STRASSE 250, 64293 DARMSTADT, GERMANY.  (72) Name of the Inventors : 1. JONAS, ROCHUS, 2. SCHELLING, PIERRE, 3. CHRISTADLER, MARIA, 4. BEIER, NORBERT.</p>
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**(57) Abstract :**

The invention relates to 2 aminomethyl-thieno[2,3-d]pyrimidines of general formula (I), wherein the radicals R<1> to R<6> have the meanings given in the text. These compounds demonstrate phosphodiesterase V inhibition and can be used to treat diseases of the cardiovascular system and potency disorders.

**(I)**

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. IN/PCT/2002/01426 A

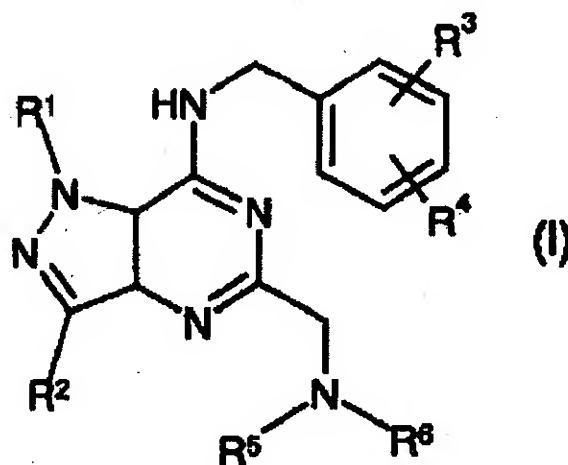
(22) Date of filing of : 21/11/2002  
application

(54) Title of the Invention : "5-AMINOALKYL-PYRAZOLO[4,3-D]PYRIMIDINES WITH A PHOSPHODIESTERASE V-INHIBITING EFFECT."

<p>(51) International classification : C07D 487/04, A61K 31/519, A61P 9/00</p> <p>(30) Priority Data :</p> <p>(31) Document No. 100 31 584.4</p> <p>(32) Date : 29/06/2000</p> <p>(33) Name of convention country : DE</p> <p>(66) Filed U/s 5(2) :NIL</p> <p>(61) Patent of addition to application No. NA</p> <p>(62) Filed on :NA</p> <p>(63) Divisional to Application No. :NIL</p> <p>(64) Filed on :NA</p>	<p>(71) Name of the Applicant ; MERCK PATENT GMBH, OF FRANKFURTER STRASSE 250, 64293 DARMSTADT, GERMANY.</p> <p>(72) Name of the Inventors :</p> <p>1. JONAS, ROCHUS,</p> <p>2. SCHELLING, PIERRE,</p> <p>3. CHRISTADLER, MARIA,</p> <p>4. BEIER, NORBERT.</p>
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(57) Abstract :

The invention relates to 5-aminomethyl-pyrazolo[4,3-d]pyrimidines of general formula (I), wherein the radicals R<1> to R<6> have the meanings given in the text. The compounds demonstrate a phosphodiesterase V-inhibiting effect and can be used for treating diseases of the cardiovascular system and for treating potency disorders.



Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. IN/PCT/2002/01427 A

(22) Date of filing of : 21/11/2002  
application

(54) Title of the Invention : "HETEROCYCLIC AMINOALKYLPYRIDINE DERIVATIVES AS PSYCHOPHARMACEUTICALS."

(51) International classification : C07D  
401/12, 417/12, 405/12, 213/64, A61K 31/4427

(30) Priority Data :

(31) Document No. 100 29 371.9

(32) Date : 20/06/2000

(33) Name of convention country : DE

(66) Filed U/s 5(2) : NIL

(61) Patent of addition to application No. NA

(62) Filed on : NA

(63) Divisional to Application No. : NIL

(64) Filed on : NA

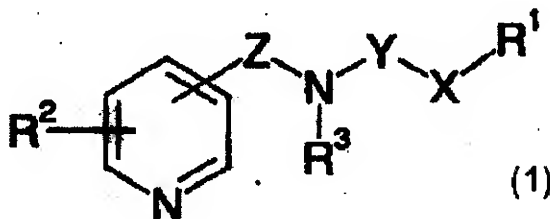
(71) Name of the Applicant : MERCK  
PATENT GMBH, OF FRANKFURTER  
STRASSE 250, 64293 DARMSTADT,  
GERMANY.

(72) Name of the Inventors :

1. DORSCH DIETER,
2. BOTTCHE HENNING,
3. ARLT MICHAEL,
4. GOTTSCHLICH RUDOLF,
5. SEYFRIED CHRISTOPH,
6. BARTISZYK GERD,
7. HARTING JURGEN.

**(57) Abstract :**

The invention relates to formula (1) heterocyclic aminoalkyl pyridine derivatives, whereby R<1> represents the radical of a heterocycle comprising 1 to 3 ring structures which are saturated, unsaturated or aromatic and optionally annellated with other ring structures to form a condensed ring system, and which comprise a total of 1 to 4 N-, O- and/or S-atoms, said heterocycle being optionally substituted once, twice or three times by at least one of the following groups: -A, -OR<4>, -N(R<4>)<sub>2</sub>, -NO<sub>2</sub>, -CN, Hal, -COOR<4>, -CON(R<4>)<sub>2</sub>, -COR<4>, = O; R<2> represents a phenyl group which is optionally substituted once, twice, three, four or five times by at least one of the following groups: Hal, A, -O-A, -NO<sub>2</sub> or CN, or a thienyl group which is optionally substituted once or twice by at least one of the following groups: Hal, A, -O-A, -NO<sub>2</sub>, -CN or thienyl; -X- represents -O-, -S-, sulfinyl, sulfonyl, or -C(R<4>)<sub>2</sub>-; -Y- represents [C(R<4>)<sub>2</sub>]<sub>n</sub>-; -Z- represents -C(R<4>)<sub>2</sub>-; and n represents 1, 2, 3 or 4. The invention also relates to the compatible salts and solvates of the heterocyclic aminoalkyl pyridine derivatives and the use thereof as pharmaceuticals.



Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21). Application No. IN/PCT/2002/01428A

(22) Date of filing of : 21/11/2002  
application

(54) Title of the Invention : "MATERIAL COMPOSITE AND PRODUCTION AND USE OF THE MATERIAL COMPOSITE."

(51) International classification : C04B 37/00,  
G02B 7/00, B32B 18/00

(30) Priority Data :

(31) Document No. 100 26 651.7

(32) Date : 29/05/2000

(33) Name of convention country : DE

(66) Filed U/s 5(2) : NIL

(61) Patent of addition to application No. NA

(62) Filed on : NA

(63) Divisional to Application No. : NIL

(64) Filed on : NA

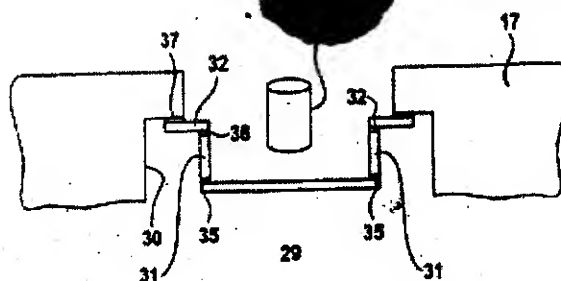
(71) Name of the Applicant : SIEMENS  
AKTIENGESELLSCHAFT, OF  
WITTELSBACHERPLATZ 2, 80333  
MUNCHEN, GERMANY.

(72) Name of the Inventors :

1. JACOBITZ, JOCHEN,
2. HUGGING, ELISABETH,
3. KIESEWETTER, HELLMUTH,
4. BAUER, WOLFGANG,
5. MATHES, WIELAND.

(57) Abstract :

The invention relates to a material composite (1) that is vacuum-tight and resistant to thermal shocks, to a method for the production thereof and to its use. A permanent connection between an aluminum oxide sapphire (2) and an aluminum oxide ceramic (5) is attained by a first connecting layer (3) comprised of a manganese-silicate glass, in which at least one of the metals molybdenum, tungsten, palladium or platinum is incorporated, and by a second connecting layer (4) comprised of a manganese-silicate glass. To this end, the individual materials are joined by sintering. The material composite (1) is used for inserting a window comprised of aluminum oxide sapphire (2) into a housing (16) for a light-ignitable thyristor (16).



**Publication After 18 months.**

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

- (21) Application No. IN/PCT/2002/01429A (22) Date of filing of : 21/11/2002 application
- (54) Title of the Invention : "MOBILE RADIO SERVICE OVER CATV NETWORK."

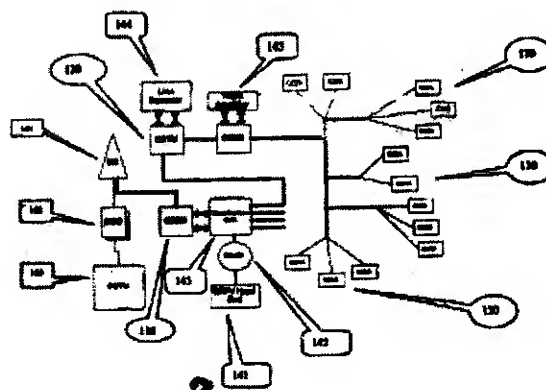
(51) International classification : H04H 1/00; 1/40, 7/00, H09N 7/12  
 (30) Priority Data :  
 (31) Document No. 60/206,794  
 (32) Date : 25/05/2000  
 (33) Name of convention country : U.S.A.  
 (66) Filed U/s 5(2) : NIL  
 (61) Patent of addition to application No. NA  
 (62) Filed on : NA  
 (63) Divisional to Application No. : NIL  
 (64) Filed on : NA

(71) Name of the Applicant : PASSOVER INC., OF CORPORATION TRUST CENTER, 1209 ORANGE STREET, WILMINGTON, DE 19801-1196, U.S.A.

(72) Name of the Inventors :  
 1. SHKLARSKY DAN,  
 2. GOLOMBEK HAREL.

**(57) Abstract :**

Passive elements in a CATV network (141) pass mobile radio network (102) signals without modification. The CATV network (141) carries both television and data as before, but also cellular or PCS signals (101). A cellular entrance module CEEM (110) provides an interface between the mobile radio terminal and the CATV network (141). Because the CATV network (141) is modified to transport the mobile radio signals, the mobile radio signals can be passed without modification to format or frequency.

**Upgraded Cellular Cable Network**

Publication After 18 months.

The following Patent application have been published under Section 11A of the Patents (Amendment) Act, 2002

(21) Application No. IN/PCT/2002/01430A

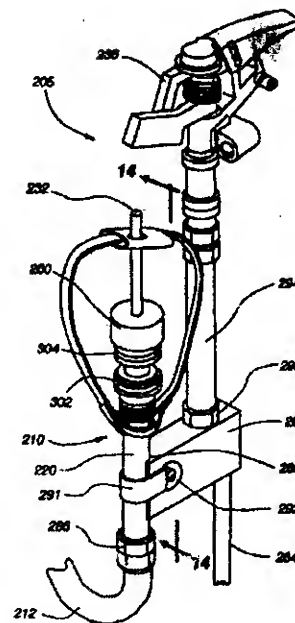
(22) Date of filing of : 21/11/2002  
application

(54) Title of the Invention : "APPARATUS FOR INTERMITTENT LIQUID DISPERSAL."

<p>(51) International classification : F16K 31/06, 31/02, F02M 61/12, 51/09, B05B 1/32</p> <p>(30) Priority Data :</p> <p>(31) Document No. 60/212,896 &amp; 09/885, 378</p> <p>(32) Date : 20/06/2000 &amp; 19/06/2001</p> <p>(33) Name of convention country : U.S.A.</p> <p>(66) Filed U/s 5(2) :NIL</p> <p>(61) Patent of addition to application No. NA</p> <p>(62) Filed on :NA</p> <p>(63) Divisional to Application No. :NIL</p> <p>(64) Filed on :NA</p>	<p>(71) Name of the Applicant : MCKENNA QUENTIN M., OF 1285 LINDEN DRIVE, BOULDER, CO 80304-0476, U.S.A.</p> <p>(72) Name of the Inventors : MCKENNA QUENTIN M.</p>
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(57) Abstract :

Valve (10) for the periodic and cyclic or otherwise intermittent release of a fluid is described along with an irrigation sprinkler (5) incorporating the valve (10). The valve opens when a critical pressure level is reached in a reservoir (12) attached to the valve, thereby permitting a portion of the fluid contained within the reservoir (12) to be released through the valve. As the fluid is released, the pressure in the reservoir decreases. The valve does not close until the pressure level in the reservoir reaches a second pressure level that is below the critical pressure level. When the reservoir (12) is refilled from a pressurized source at a controlled rate that is less the rate at which the fluid is expelled through the valve when open, the valve (10) will cycle repetitively.



## ALTERATION OF DATE UNDER SECTION—16

192793 (342/CAL/2001) ANTE-DATED TO 16-10-1995.

## अभिगृहित पूर्ण विनिर्देश

एतद्वारा सूचना दी जाती है कि आवेदनों में किसी पर पेटेंट अनुदान का विरोध करने वाले इच्छुक व्यक्ति राजपत्र के इस निर्गमन की तिथि से चार महीने के भीतर या उक्त चार महीने की समाप्ति के पूर्व, प्ररूप 4 में यदि आवेदित किया हुआ हो, तो परवर्ती एक महीने के भीतर, किसी समय, नियंत्रक, पेटेंट को ऐसे विरोध की सूचना प्ररूप 7 में उपयुक्त कार्यालय में दे सकते हैं। विरोध का लिखित कथन साक्ष्य के साथ, यदि कोई हो, दो प्रतियों में उक्त सूचना के साथ या अगले दो महीने की अवधि के भीतर दाखिल किया जाए। इस संदर्भ में, यथा संशोधित पेटेंट अधिनियम, 1970 की धारा 25 एवं पेटेंट नियम, 2003 के नियम 55 से 57 का अवलोकन किया जा सकता है।

उपयुक्त कार्यालय द्वारा विनिर्देश एवं चित्र आरेख, यदि हों, के छायाप्रति की आपूर्ति छायाप्रति शुल्क के रूप में प्रति पृष्ठ रु. 4/- की अदायगी पर की जा सकती है।

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of a Patent on any of the Applications, may, at any time within four months from the date of this issue of Gazette or within further period of one month if applied for in Form 4 before the expiry of the said period of four months, give notice to the Controller of Patents at the Appropriate Office on Form 7 of such opposition. The Written Statement of Opposition accompanied by evidence, if any, should be filed in duplicate alongwith the said notice or within further period of two months. Section 25 of The Patents Act, 1970 as amended and Rules 55 to 57 of The Patents Rules, 2003 may be referred to in this regard.

Photo copies of the specification and drawings, if any, can be supplied by the Appropriate Office on payment of photocopying charges @ Rs. 4/- per page.

Ind.Cl : 192791  
Int. Cl.7 : A61L 31/00  
Title : BIOABSORBABLE MEDICAL DEVICES FROM OXIDIZED POLYSACCHARIDES  
Applicant : JOHNSON & JOHNSON MEDICAL, INC. OF 2500 ARBROOK BOULEVARD, ARLINGTON, TX 76004, UNITED STATES.  
Inventor : 1. DAVID M. WISEMAN.  
2. LOWELL SAFERSTEIN.  
3. STEPHEN WOLF

Application no. 1209/CAL/1997 FILED ON 25.6.1997

(CONVENTION NO. 60/020 758 FILED ON 28.6.1996 IN USA)

APPROPRIATE OFFICE FOR OPPOSITION PROCEEDING (RULE 4, PATENT RULES 2003)

PATENT OFFICE KOLKATA.

**15 CLAIMS.**

A process for preparing a bioabsorbable material which comprises oxidizing a polysaccharide selected from a cellulose derivative, a starch, an alginate, guar, konjac, dextrin, pustlan or cyclodextrin, in the presence of an oxidizer.

***Complete Specifications : 30 pages.***

***Drawings: NIL***



Ind.Cl : 39 192792

Int. Cl.<sup>7</sup> : C07F 9/58, B01J 29/04, C01B 3/04, C07C 2/00 C07M 1/00

Title : A PROCESS FOR PREPARING A COMPOSITE CONSISTING OF A SUPPORTING SUBSTRATE WITH A PHOTOCHEMICALLY ACTIVE MULTI-LAYERED FILM

Applicant : THE TRUSTEES OF PRINCETON UNIVERSITY OF PO BOX 36, PRINCETON, NEW JERSEY 08544, U.S.A

Inventor : 1. MARK E. THOMSON  
2. JONATHAN LEE SNOVER.  
3. LORI ANN VERMEULEN.

Application no. 642/CAL/1994 FILED ON 09.08.1994

APPROPRIATE OFFICE FOR OPPOSITION PROCEEDING (RULE 4, PATENT RULES 2003)

PATENT OFFICE KOLKATA.

### 23 CLAIMS.

A process for preparing a composite consisting of a supporting substrate with a photochemically active multi-layered film, such as herein described, comprising the steps of

- a) forming a linking layer on said substrate ;
- b) depositing a layer comprising a plurality of complexes having the formula :  

$$(Y^1O_3-Z-Y^2O_3)_p(X^{2n})$$
- c) depositing particles of at least one Group VIII metal, at zero valence, among said plurality of complexes;
- d) forming a cohesive layer of metal by treating said substrate with a source of a trivalent or tetravalent metal Group II A, III B, IV A, or IV B having an atomic number of at least 21 or a lanthanide ; and
- e) repeating steps b), c) and d) sequentially, upto about 100 times, forming a multi-layered film ;

wherein :

said linking layer is comprised of a cohesive layer of metal of a trivalent or tetravalent metal of Group III A, III B, IV A, or IV B having an atomic number of at least 21 or lanthanide ;

each of  $Y^1$  and  $Y^2$ , independently of the other, is phosphorus or arsenic;

Z is a divalent group which reversibly forms a stable reduced form, said group containing two conjugated cationic centers which together have a negative  $E^0_{red}$  value ;

X is anion; and

p has a value of 1 or 2.

Ind. Cl. : 192793

Int.Cl<sup>7</sup> : F04B 49/00

Title : A SCROLL TYPE MACHINE

Applicant : COPELAND CORPORATION, OF CAMPBELL ROAD, SIDNEY OHIO  
45365-0669, U.S.A

Inventor : 1. MARK BOSS.  
2. J ROY DOEPKER.  
3. JEAN-LUN M. CAILLAT.  
4. WAYNE R. WARNER

Application no. 342/CAL/2001 FILED ON 20.06.2001

(CONVENTION NO. 08/486, 118 FILED ON 07.06.1995 IN U.S.A )

(DIVIDED OUT OF NO. 1243/CAL/95 ANTEDATED TO 16.10.1995)

APPROPRIATE OFFICE FOR OPPOSITION PROCEEDING (RULE 4, PATENT RULES 2003)

PATENT OFFICE KOLKATA.

### 18 CLAIMS.

A scroll-type machine comprising :

a first scroll member having an end plate and a first spiral wrap upstanding therefrom:

second scroll member having an end plate and second spiral wrap upstanding therefrom,  
said first and second scroll members being positioned with said first and second spiral wraps  
interleaved with each other:

a fixed support structure for supporting said first and second scroll members for relative  
orbital movement therebetween whereby said first and second spiral wraps define sealed moving  
fluid pockets;

a power source coupled to said first scroll member to effect said relative orbital movement  
between said first and second scroll members; and

a device selectively actuatable to effect relative radial movement between said first and  
second scrolls to thereby form a leakage path between said moving fluid pockets while said power  
source continues to operate whereby the capacity of said compressor is reduced, said device being  
independent of said coupling of said power sources to said first scroll.

**Complete Specifications : 55 pages.**

**Drawings: 28 sheets**

Ind.Cl : 155 F2 192794  
Int.Cl<sup>7</sup> : D04H 1/60  
Title : A MACHINE FOR MAKING CHOPPED STRAND MAT AND A  
PROCESS FOR MAKING CHPPED STRAND MAT.  
Applicant : OWENS CORNING CANADA INC, OF 5140, YONGE STREET, SUITE  
NO. 700, NORTH YORK, ONTARIO M2N 6T9, CANADA  
Inventor : 1. DANIEL F. HEISLER.  
2. CHRISTOPHER J. CLEMENTS.  
3. KENNETH M. BERRY

Application no. 801/CAL/97 FILED ON 02.05.1997

(CONVENTION NO. 08/646,698 FILED ON 03.05.1996 IN USA )

APPROPRIATE OFFICE FOR OPPOSITION PROCEEDING (RULE 4, PATENT RULES 2003)

PATENT OFFICE KOLKATA.

**24 CLAIMS.**

A machine (166) for making chopped strand mat, comprising

Apparatus 9130) with at least one air cannon (100) for collecting chopped fibrous material from a chopper (134) and depositing received chopped fibers on a moving collection surface (102);

said air cannon comprising:

- an air amplifier (104) defining a passage (106) there through and having an inlet (108) and an outlet (110), said air amplifier (104) being driven by compressed air which enters said passage of said air amplifier (104) through an air orifice (114);
- an inlet cone (116) having an outlet end (118) positioned adjacent said inlet (108) of said air amplifier (104) and an inlet end (120) for receiving chopped fibers and directing them to the air amplifier (104); and
- an outlet cone (124) and having an inlet end (122) positioned adjacent said outlet (110) of said air amplifier (104) and an outlet end (126) for directing chopped fibers on to said moving collection surface.

**Complete Specifications : 16 pages.**

**Drawings: 10 sheets**

Ind.Cl : 24F 192795

Int. Cl.<sup>7</sup> : B66B 5/18 B66D 5/00 F16D 59/00

Title : SLIDING SAFETY GEAR

Applicant : KONE OY, OF MUNKKINIEMEN PUISTOTIE 25, 00330, HELSINKI, FINLAND

Inventor : 1. ESKO AULANKO.  
2. ILKKA LEMPPIO.  
3. JUHA TYLLINEN.

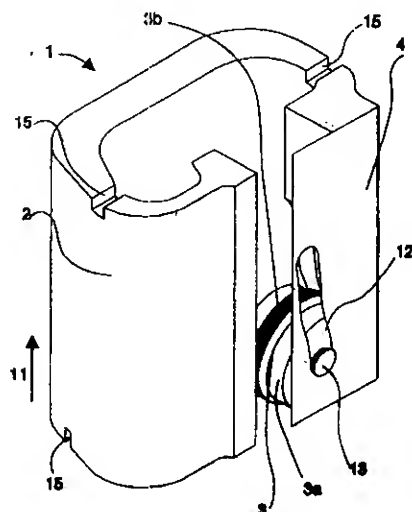
Application no. 2032/CAL/1997 FILED ON 28.10.1997

(CONVENTION NO. 964484 FILED ON 7.11.96 IN FINLAND. )

APPROPRIATE OFFICE FOR OPPOSITION PROCEEDING (RULE 4, PATENT RULES 2003)

PATENT OFFICE KOLKATA.

**12CLAIMS.**



Sliding safety gear designed to brake by gripping an elevator or counterweight guide rail, comprising a flexible frame (2, 102) surrounding the guide rail (5, 107) in the directions of the guiding surfaces of the guide rail, the frame being provided with a braking surface (7a, 104a) that meets a first guide surface of the guide rail when the sliding safety gear is braking, and a force element (3, 108) attached to the frame that meets a second guide surface when the sliding safety gear is braking, characterized in that the cross-section of the frame (2, 102) of the safety gear is substantially the shape of the letter C and that at least one of the ends of the jams of the C-shape is inside the C-shape.

Complete Specifications : 14 pages.

Drawings: 7 sheets

Ind.Cl : 76 E 192796  
Int. Cl.<sup>7</sup> : F16L 33/02, 33/20  
Title : AN IMPROVED CLAMPING BAND  
Applicant : KABUSHIKI KAISHA MIHAMA SEISAKUSHO OF 11417,  
MIYAGAWA, CHINO-SHI, NAGANO-KEN, JAPAN.  
Inventor : TAIRA HAMA  
Application no. 1802/CAL/1997 FILED ON 25.9.1997

APPROPRIATE OFFICE FOR OPPOSITION PROCEEDING (RULE 4, PATENT RULES 2003)

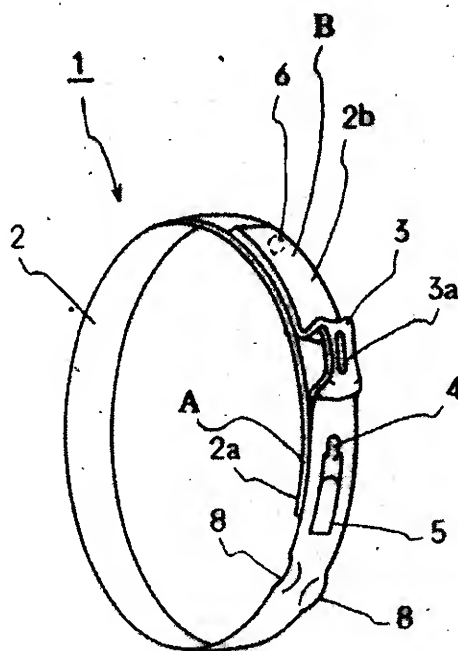
PATENT OFFICE KOLKATA.

**9 CLAIMS.**

An improved clamping band (1) comprising:

a metallic band section (2) having a first end (2a) and a second end (2b), and a gate shaped clamping ear (3) disposed at a position on said band section (2) overlapping said first end (2a) when said band section (2) is formed into a loop, said clamping ear (3) being compressible in the circumferential direction of said loop to permit reducing a diameter of said loop, characterized in that

- a Y shaped fork (2a) comprising a pair of fork pieces being formed in said first end of said band section (2), a pair of concave sections (8) being formed in each side edge margin of said band section (2), said concave sections (8) being capable of respectively accommodating said fork pieces of Y-shaped fork (2a) when said band section (2) is formed into the loop with said first end (2a) being overlapped by said band section (2) and said concave sections (8) facing inwardly.



Complete Specifications : 20 pages.

Drawings: 7 sheets

Ind.Cl : 192797  
Int. Cl.<sup>7</sup> : F25D 17/08  
Title : APPARATUS FOR SUPPLYING COLD AIR AN REFRIGERATORS  
Applicant : LG ELECTRONICS INC, OF 20, YOIDO-DONG, YONGDUNGPO-KU,  
SEOUL, REPUBLIC OF KOREA  
Inventor : 1. SEOL RO KIM  
2. JUN BAE PARK

Application no. 1561/CAL/1997 FILED ON 26.8.1997

(CONVENTION NO. 96-35727 FILED ON 27.08.1996 IN REPUBLIC OF KOREA )

*APPROPRIATE OFFICE FOR OPPOSITION PROCEEDING (RULE 4, PATENT RULES 2003)*

*PATENT OFFICE KOLKATA.*

**5 CLAIMS.**

An apparatus for supplying cold air in a refrigerator comprising :

a main cold air duct supplying a refrigerating compartment with cold air generated in a freezing compartment;

a distributing duct having a plurality of diverged ducts and supplying respective areas divided by a plurality of shelves in the refrigerating compartment with cold air from the main cold air duct;

a plurality of temperature sensors provided in the areas;

a control means configured at connecting point between the main cold air duct and the distributing duct;

a control part controlling the control means according to the difference of a measured value from the sensor with a prescribed value in the areas.

***Complete Specifications : 52 pages.***

***Drawings: 10 sheets***

Ind.Cl : 54 192798

Int. Cl.<sup>7</sup> : A47J 31/06

Title : COFFEE MACHINE

Applicant : FIANARA INTERNATION B.V OF RIVIERSTAETE BUILDING,  
AMSTELDIJK 166, NL-1079 LH, AMSTERDAM, THE NETHERLAND

Inventor : SCHMED ARTHUR

Application no. 84/CAL/2001 FILED ON 14.2.2001

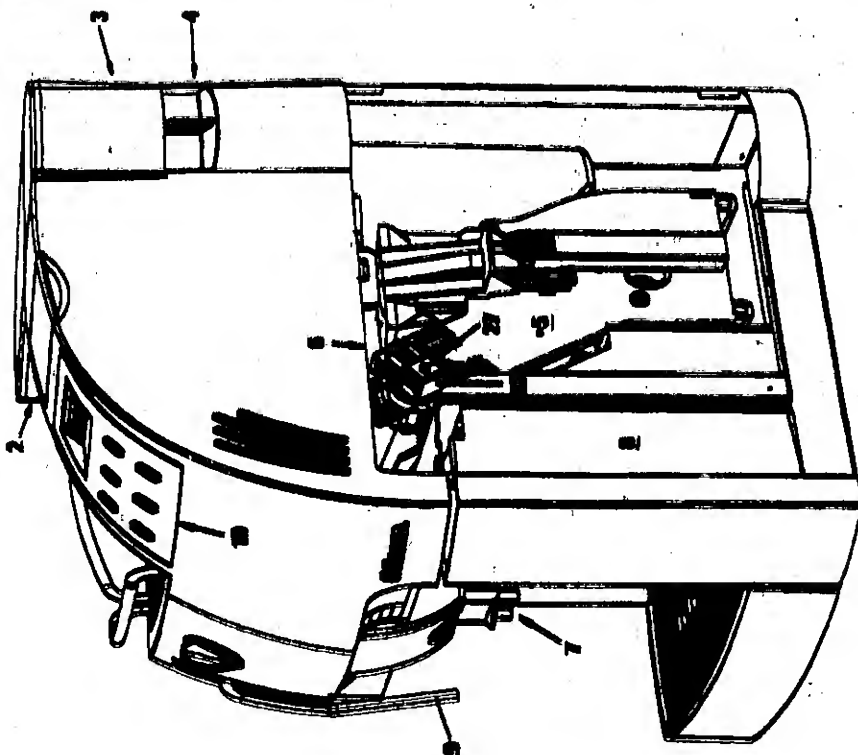
(CONVENTION NO. 2000 0490/00 FILED ON 15.3.2000 IN SWITZERLAND )

APPROPRIATE OFFICE FOR OPPOSITION PROCEEDING (RULE 4, PATENT RULES 2003)

PATENT OFFICE KOLKATA.

### 25 CLAIMS.

A coffee machine, comprising a fresh water supply means, a coffee brewing unit means provided with a brewing chamber means, means for supplying coffee powder to said brewing chamber means, a coffee beverage outlet means, a pump means for conveying water under pressure from said fresh water supply means through said brewing chamber means containing said coffee powder to said coffee beverage outlet means, and a valve means inserted between said brewing chamber means and said coffee beverage outlet means, characterized in that said valve means comprises means for adjusting the amount of coffee beverage flowing through said valve means per time unit.



Complete Specifications : 19 pages.

Drawings: 4 sheets

Ind.Cl : 85 R 192799

Int.Cl<sup>7</sup> : C22C 33/08 C21B7/00

Title : A LOW-COST PROCESS FOR PRODUCING LOW SULPHUR AND  
PHOSPHORUS-CONTENT DUCTILE IRON

Applicant : STEEL AUTHORITY OF INDIA LTD. OF ISPAT BHAWAN, LODI  
ROAD, NEW DELHI – 110003, INDIA

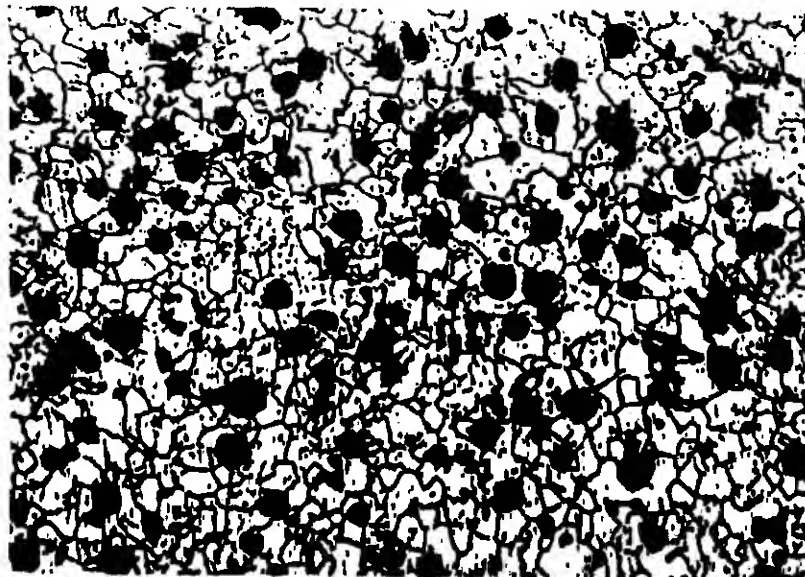
Inventor : 1. PRABIR KUMAR BANDOPADHYAY.  
2. SHILOWBHADRA BANERJEE

Application no. 1594/CAL/1997 FILED ON 29.08.1997

APPROPRIATE OFFICE FOR OPPOSITION PROCEEDING (RULE 4, PATENT RULES 2003)

PATENT OFFICE KOLKATA.

3. CLAIMS.





A low-cost process for producing low sulphur and phosphorus-content ductile iron, characterised in that the process comprises the following steps :

- (i) producing the base metal in a cold blast cupola furnace, such as herein described, by melting at 1400 - 1430°C a charge of readily available 20 - 80% by weight of steel scraps containing heavy weight forged rounds each weighting 20 - 30 kg, medium weight crop ends of channels and angles each weighing 10 - 20 kg, and light weight rolled scraps each weighing 250 - 300 g, of various shapes and dimensions; and 80 - 20% by weight of pig iron of chemical composition (by weight %) : C - 3.0 to 4.0, Si - 1.0 to 1.5, Mn - 0.5 to 1.0, S - 0.05 to 0.08, P - 0.2 to 0.3 and Fe - the balance, and coke of ash content 5 - 10% and phosphorus content 0.10 - 0.15% by weight;
- (ii) pouring the molten iron from the cold blast cupola furnace into a ladle containing conventionally used flux composed of soda ash and calcium carbide, and skimming off the slag formed in the ladle;
- (iii) subjecting the molten iron in the ladle to known magnesium treatment, by adding magnesium or nickel magnesium or ferro-silicon magnesium, and skimming off the slag containing MgS formed thereby;
- (iv) post-inoculating the molten iron in the ladle with conventionally used Fe-si powder to the extent required for producing the ductile iron of chemical compositions (by weight %) : C - 3.21 to 3.63, Si - 1.79 to 2.69, Mn - 0.30 to 0.51, S - 0.011 to 0.023, P - 0.06 to 0.09 and Fe - the balance;
- (v) pouring the molten iron from the ladle into steel moulds for casting spun pipes of diameter and length, such as herein described, or bars of required dimensions.

Complete Specifications : 10 pages.

Drawings : 3 sheets

Ind.Cl : 28A 192800

Int.Cl<sup>7</sup> : F23C 11/00

Title : A NITROGEN OXIDE REDUCING APPARATUS IN OIL FIRED  
ABSORPTION REFRIGERATING APPARATUS

Applicant : KAWASAKI THERMAL ENGINEERING CO. LTD, OF 1000, AOJICHO,  
KUSATSU-SHI, SHIGA 525, JAPAN

Inventor : 1. TEVUO TANABE.  
2. KUNIIHIKO NAKAJIMA.  
3. TOSHIHIKO KANAYA.

Application no. 1224/CAL/1997 FILED ON 26.6.1997

APPROPRIATE OFFICE FOR OPPOSITION PROCEEDING (RULE 4, PATENT RULES 2003)

PATENT OFFICE KOLKATA.

### 3 CLAIMS.

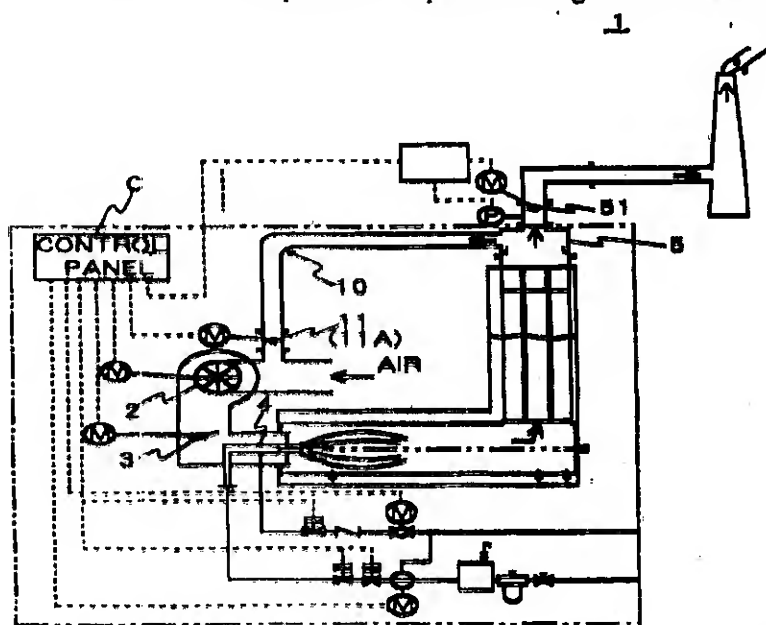
A nitrogen oxide reducing apparatus in oil fired absorption refrigerating apparatus comprising:

a draft control damper placed in an exhaust gas duct, and

an exhaust gas recirculation duct, having a flow rate control damper, designed so as to maintain about 15% of exhaust gas recirculation volume in combustion air by the flow rate control damper being fully opened at rated maximum load; wherein draft of the exhaust gas duct is controlled at -5 mm Aq or more, but not causing misfiring by the draft control damper;

the load region of the oil fired absorption refrigerating apparatus is divided into a low load zone and a high load zone; and

the flow rate control damper is full open at the high load zone and half open at the low load zone.



Complete Specifications : 9 pages.

Drawings: 4 sheets

Indian Classification	:-	35 E	192801
International Classification <sup>7</sup>	:-	C 04B 35/10, 35/622, 35/66	
Title	:-	"A Completely Cement – Free Refractory Castable Composition (ZCC) and a Process of Preparing the Composition".	
Applicant	:-	Steel Authority of India Limited, a Govt. of India Enterprise, Research and Development Centre For Iron and Steel, Having Its Registered Office at Ispat Bhavan Lodhi Road, New Delhi - 3.	
Inventors	:-	PRASANTA - NANDI - INDIAN LAKSHMAN - TIWARI - INDIAN MANISHANKAR - MUKHOPADHYAY - INDIAN KRISHNA CHARAN CHATTERJEE - INDIAN	
Kind of Application	:-	COMPLETE	
Application for Patent Number	1185/del/1995	filed on	27/06/1995

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office , New Delhi Branch - 110 008.

( Claims 5 )

A completely cement-free refractory castable composition, comprising 30-62% by weight of sintered/fused alumina grains, 15-20% by weight of sintered/white fused alumina fines, 5-7% by weight of calcined microfine alumina, 2-5% by weight of hydrated alumina, 10-15% by weight of reactive alumina, 0-15% by weight of sillimanite/kyanite, 5.8-7.7% by weight of reactive silica and 0.2-0.3 by weight of sodium poly phosphate as deflocculant; the grain sizes of the said ingredients being variable within the overall range of 0.10 mm, depending on the desired end use of the said composition, and the improved properties of the said composition being produced by synergic effect of the ingredients.

Complete Specification	No of Pages	22	Drawings Sheets	01
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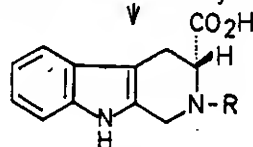
Indian Classification	:-	32 F2	192802
International Classification <sup>7</sup>	:-	C 07D 209/04	
Title	:-	A Process for the Synthesis of (3S)-2-Substituted-1, 2, 3, 4-Tetrahydro-9H-Pyrido (3, 4-b) Indole-3-Carboxylic Acids Useful as Potential Anti - Cholecystokinin Agents"	
Applicant	:-	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001.	
Inventors	:-	RAVISH CHANDRA TRIPATHI - INDIAN ANIL KUMAR SAXENA - INDIAN RAM - RAGHUBIR - INDIAN	
Kind of Application	:-	PROVISIONAL/COMPLETE	
Application for Patent Number	437/del/1995	filed on	14/03/1995

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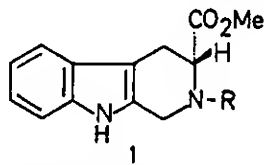
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office , New Delhi Branch - 110 008.

( Claims 4 )

A process for the synthesis of (3S) -2- substituted - 1, 2, 3, 4,-tetrahydro-9H-pyrido (3,4-b) indole -3-carboxylic acids, useful as potential anti-cholecystokinin agents of the formula 2



wherein R=aroyl, arylalk-enoyl, quinolinoyl and the aryl substitution describes phenyl substituted with groups like halo, alkoxy, acetylbenzyloxy which comprises hydrolysing (3S) -methyl 2-substituted -1,2,3,4-tetrahydro-9H-pyrido (3,4-b) indole -3-carboxylates of formula (1) -



with KOH/NaOH in alkanol at the temperature ranging from 25 to 40°C for a period in the range of 48 to 96 hours at a temperature of 25 to 80°C to produce the corresponding (3S) -2-substituted -1,2,3,4-tetrahydro-9H-pyrido-(3,4-b) indole-3-carboxylic acids of the formula 2 and recovering the said acid by conventional methods.

Provisional Specification	No of Pages	6	Drawings Sheets	1
Complete Specification	No of Pages	09	Drawings Sheets	NIL

Indian Classification	:-	43 H	<b>192803</b>
International Classification <sup>7</sup>	:-	E06 B 9/00	
Title	:-	"A Shutter Device for Actuating a Gamma Ray source of failsafe pushing operation in coke oven."	
Applicant	:-	Steel Authority of India Ltd. Research & Dev. Centre for Iron & steel, a Govt. of India Enterprises, having its registered office at Jspat Bhawan, Lodi Road, New Delhi-110003.	
Inventors	:-	RAM NUPUR BHATTACHARYYA -INDIA, SATYENDRA PRASAD NOKKAPATY -INDIA, KRISHNA KANT MALLIK -INDIA, DEBASIS - MUKHERJEE -INDIA.	
Kind of Application	:-	COMPLETE	
Application for Patent Number	1279/Del/1995	filed on	10/07/1995

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi  
Branch - 110 008.

( Claims 4 )

A shutter device for actuating a gamma ray source for failsafe pushing operation in coke ovens to avoid any damage of equipment, rail track, coke oven anchorage, spillage of coke, injuries to operating personnel and consequent loss in productivity of coke oven, characterised in that the shutter device comprises (i) a shutter (14) in the form of a mild steel block of rectilinear shape, disposed movably in upward and downward directions with the two longitudinal sides thereof fitted in two U channels (18) mounted in a vertical direction on base (20) and having two resting plates (19) for allowing the shutter to stand thereon, the shutter being disposed in front of window (21) of gamma ray source (9), shielded in lead enclosure (22) and housed in box (13); and (ii) a stainless steel wire or rope (15) drawn over pulley (16), one end of the wire or rope being connected to the shutter by being threaded through hooks (23, 24) provided for the purpose and the other end of the wire or rope being connected to guide car cage (8) which is inserted into coke oven (1), the said components being arranged so as to cause automatic movement of the shutter in the upward and downward directions in accordance with the degree of insertion of the guide car cage into the coke oven.

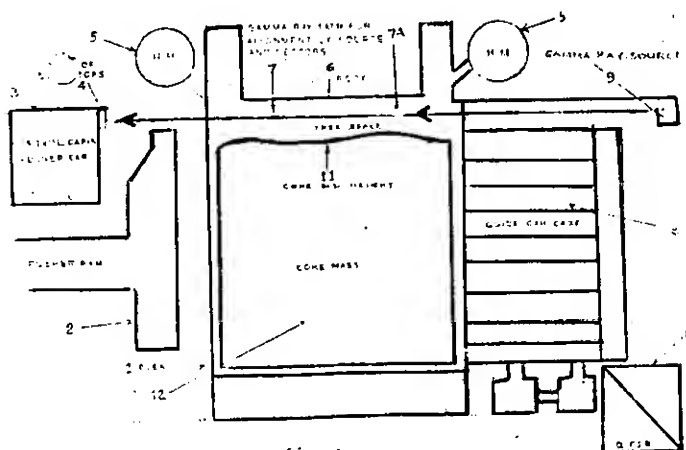


Fig. 1

Complete Specification

No of Pages

10

Drawings Sheets

5

Indian Classification	:-	128 G	192804
International Classification <sup>7</sup>	:-	A61K 9/16	
Title	:-	"Apparatus for preparing solid forms with controlled release of active ingredients and method carried out therein."	
Applicant	:-	Saitec S. R. L., an Italian company, of Via Medesano, 36, 40023 Castelfranco di Bologna, Italy.	
Inventors	:-	LORENZO - RODRIGUEZ -ITALY, MAURIZIO - CINI -ITALY, CRISTINA - CAVALLARI -ITALY, GIUSEPPE - MOTTO -ITALY.	
Kind of Application	:-	COMPLETE	
Application for Patent Number	1314/Del/1995	filed on	13/07/1995

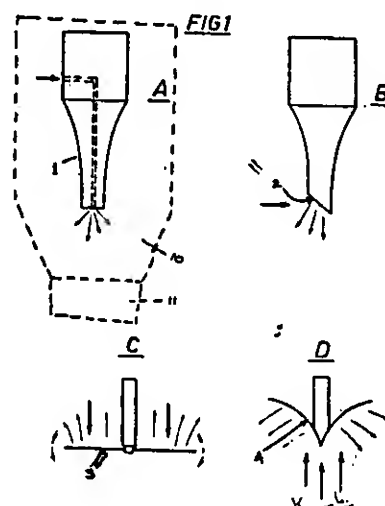
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi  
Branch - 110 008.

(Claims 9)

Apparatus for preparing solid forms with controlled release of the active ingredient according to the spray drying and spray congealing techniques, comprising: (a) an atomizing means that nebulizes in very little droplets a liquid comprising a solution, suspension or emulsion of one or more active ingredients and/or excipients of the kind such as herein described in one or more solvents of different polarity or of one or more active ingredients in one or more melted waxy excipients; and (b) a cylindrical chamber with vertical axis inside of which the droplets thus obtained in a fall to give spherical powder particles because of the evaporation of the contained solvents or of the solidification owing to the quenching of the melted waxy components, characterized in that the atomizing means utilizes mechanical vibrations of resonant metal elements at ultrasonic frequencies, the liquid being directed to said resonant metal elements to obtain said droplets, and the apparatus comprises a means for recovering the volatile solvents eventually employed.

Complete Specification      No of Pages      23

Drawings Sheets      15



Indian Classification	:-	154 D	192805
International Classification <sup>7</sup>	:-	B23P 15/00	
Title	:-	"A Suction Roller."	
Applicant	:-	De La Rue Glori S.A. 4, rue de la Paix, 1003 Lausanne / Switzerland.	
Inventors	:-	LAPP JOACHIM ALFRED HEINZ - GERMANY, WEILER ALFRED WALTER - GERMANY.	
Kind of Application	:-	COMPLETE	
Application for Patent Number	746/Del/1995	filed on	24/04/1995

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi  
Branch - 110 008.

( Claims 6 )

A suction roller for the transport of a material web, the material web looping round the suction roller along a specific circumferential portion, said suction roller comprising. - a stationary roller core (1)- roller casing (2) rotatable about the said stationary roller and having orifices (3) distributed over its circumferences and a suction-air supply means provided on the roller core, said air supply means connected to a negative-pressure source which opens out on the inner circumference of the roller casing (2) and is so constructed that the region of the casing orifices (3) which is subject to the negative pressure defines a stationary suction surface which is located within the circumferential portion around which the material web is looped, characterized in that the outside diameter of the roller casing (2) has a diameter increasing from the center towards both sides, said suction surface has a wedge-shaped form, the wedge tip being directed opposite to the direction of rotation of the roller casing (2) and being located at the start of the said circumferential portion in the roller center, and the suction surface widening obliquely outwards on the both sides with an increasing looping angle and, at the end of the circumferential portion, having a width corresponding to the total width of the material web.

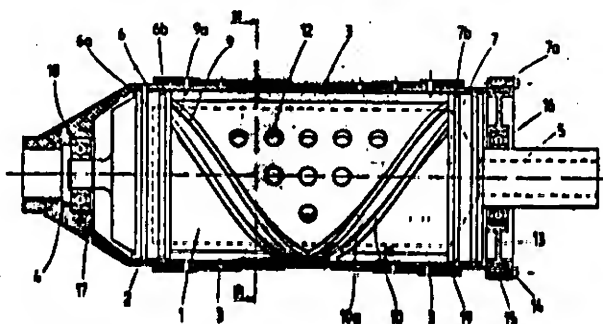


Fig 2

Indian Classification : 143. D 4 **192806**  
 4  
 International Classification : B65D 65/16  
 Title : APPARATUS FOR PACKING CONTENTS OF A MICROWAVE.  
 Applicant : LG Electronics Inc., a Korean Corporation whose address is 20, Yoido-dong, Yound dungpo-ku, Seoul, Korea.  
 Inventors : TAE HONG YEO- KOREA.  
 Kind of Application : COMPLETE  
 Application for Patent Number 1899/DEL/95 filed on 17-10-95.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office Branch, New Delhi – 110 008.

( 5 Claims)

An apparatus for packing the contents of a microwave, characterized in that, it comprises of: Means for fixing the contents by plane-contacting the both sides of the contents of a plane type and line-connecting the both edges, means for preventing movement of said fixing means by diagonally disposing said fixing means in said microwave.

A base surface plane-contacting one side of the contents;

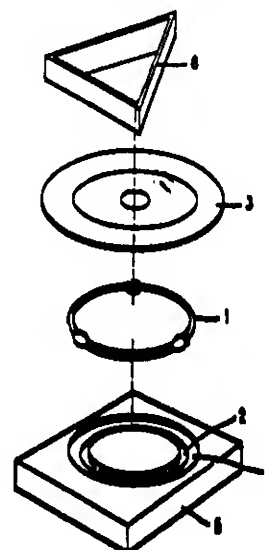
A hole (103) being formed on each of the upper and lower sides of said base surface and for holding the edge of the contents; and wings (105) being extended from the upper and lower sides of said base surface and being folded onto the other side of the contents.

FIG. 1

: SINGHANIA & COMPANY,

TES at

(Complete Specification Pages 8 Drawing Sheets - 5)





Indian Classification	:-	71 G	192807
International Classification <sup>7</sup>	:-	E 02 F 9/28	
Title	:-	" A LOCK PIN FOR COUPLING A POINT TO AN ADAPTER TO FORM AN EXCAVATING TOOTH"	
Applicant	:-	ESCO CORPORATION, of 2141 N.W. 25th Avenue, Portland, Oregon 97210, United States of America.	
Inventors	:-	LARREN FRANK JONES - USA. ROBERT KENT EMRICH - USA. IAN RICHARD BINGHAM - U.S.A.	
Kind of Application	:-	COMPLETE	
Application for Patent Number	1571/del/1995	filed on	23/08/1995

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office , New Delhi Branch - 110 008.

( Claims 08 )

A lock pin for coupling a point to an adapter to form an excavating tooth, said lock pin comprising a plurality of depressible protrusions, each said protrusion has a working member attached to elastomeric member characterized in that, an elongate rigid casing having a unitary construction which rigidly resist external forces applied during use, said protrusions being independently depressible, said casing has at least one recess for receiving and mounting said elastomeric member therein, said casing including a partition extending transversely in said recess, said casing having a first gap therein through which one of said protrusions extends to engage a face of an adapter to tighten the connection of a point on an adapter, and said casing having a second gap therein through which another of said protrusions extends to engage an opening in the point to lock said lock pin to the point.

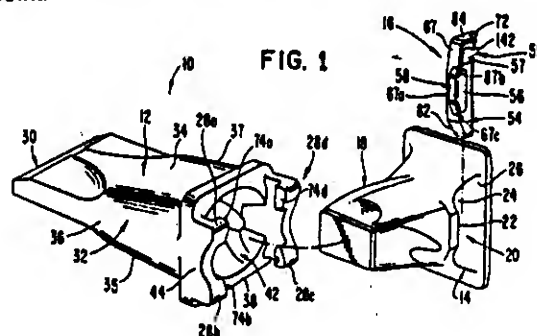
Complete Specification

No of Pages

41

Drawings Sheets

11



Indian Classification : 76 D 192808  
 4  
 International Classification : E06 B 1/02  
 Title : "ADJUSTABLE R.C.C. DOOR FRAME."  
 Applicant : RAMESHWAR DAYAL SRIVASTAVE, 22,  
 INDUSTRIAL ESTATE, KALPI ROAD,  
 KANPUR-208 012.  
 Inventors : RAMESHWAR DAYAL SRIVASTAVA  
 Kind of Application : PROVISIONAL / COMPLETE

Application for Patent Number 1423/DEL/95 filed on 31. -07-95.

Complete left after Provisional filed on 06.08.96

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office Branch, New Delhi – 110 008.

( 6 Claims)

An adjustable R.C.C. Door frame comprising three panels, 1, 11 and 111, each of the said panels having a quadrilateral shaped structure with longitudinal uniform depression on one of the sides running through out all the three panels which constitute a door frame; said panel 1 has an arrangement for fixing hinges; said panel 11 has the same height as Panel 1 and has a device for locking the door and the hold fasts; and panel 111 determines the breadth of the door frame and also has an arrangement for tower bolt and door closer (17, 18); said depression running throughout Panel 1, 11 and 111 when joined together fix up the size of the door and would not let the door proceed further ahead; characterized in that the Panel 1 is having fixtures for hexagonal steel nuts according to the number of holes in the said hinges; said steel nuts are joined together vertically upwards through steel wire or strip with their lower ends matching precisely with the holes of the hinges to be used placed on the horizontal plane.

(Complete Specification Pages 11 Drawing Sheets -4)

(Provisional Specification—3 Drawing Sheets)

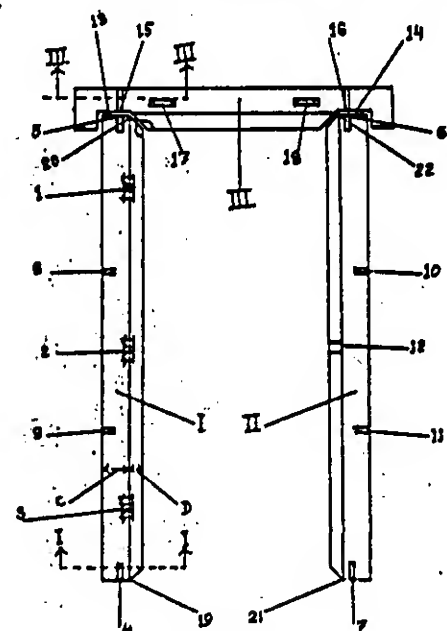


FIG. 1

Indian Classification	:	206 E	192809
International Classification <sup>7</sup>	:	H04N 7/02; 7/04	
Title	:	"AN ENCODING SYSTEM."	
Applicant	:	INTEL CORPORATION, a company incorporated in the state of Delaware, United States of America, of 2200 Mission College Boulevard Santa Clara, California 95052, United States of America.	
Inventors	:	JOHN DAVID MILLER - U.S.	
Kind of Application	:	Complete	

Application for Patent Number 1876/Del/95 filed on 12<sup>th</sup> Oct. 95.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi - 110 008.

( 3 Claims )

An encoding system comprising :

a communication link 150;

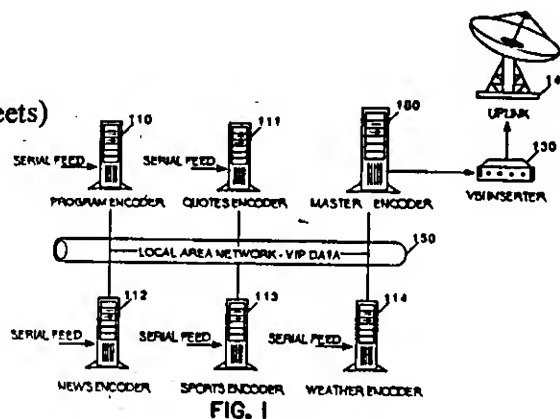
at least one computer system 110 coupled to the communication link, the at least one computer system 110 running a client application to generate a message;

a master encoder 100 coupled to the communication link 150, the master encoder 100(i) receiving the at least one message from at least one computer system 110, the at least one message including an identifier to identify a message type and to establish a priority level, (ii) converting the at least one message into a plurality of frames, each frame including at least one packet, and (iii) multiplexing the plurality of frames in accordance to the priority levels specified by the identifiers contained in the at least one message to produce a data stream; and

a video encoder 130 coupled to the master encoder 100, the video encoder 130 encoding the data stream into a video programming signal.

**REMFY & SAGAR**

(Complete Specification 29 Pages Drawings 23 Sheets)



Indian Classification :- 179 G **192810**

International Classification<sup>7</sup> :- B65 D 51/28

Title :- "A container for pharmaceutical substances and a process for assembling thereof."

Applicant :- Laboratorios Cusi, S.A. of Ctra, Nacional II, Km. 632, 08320 El Masnou (Barcelona), Spain.

Inventors :- FRANCES XAVIER GIMENEZ GUASCH -SPAIN,  
MICHAEL VAN WIE BERGAMINI -SPAIN.

Kind of Application :- COMPLETE/CONVENTION

Application for Patent Number 2433/Del/1995 filed on 28/12/1995

Convention No. 9502392/Spain/04/12/1995

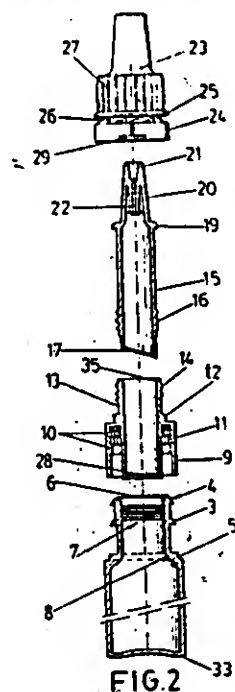
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi  
Branch - 110 Q08.

( Claims 24 )

A container for pharmaceutical substances, comprising: (a) a bottom container (1) for housing a first product, the bottom container being closed at a bottom end and open at a top end opposite the bottom end, the top end being defined by a tubular neck (2) having a first circumferential peripheral edge (4); (b) a top container for housing a second product, the top container being open at a top end and closed at a bottom end opposite the top end by a tearable bottom (28), the top container being arranged to be inserted into the interior of the tubular neck (2) of the bottom container (1); (c) a downwards extending flap (9) arranged radially out from an exterior of the top container so that the flap (9) surrounds the tubular neck (2) of the bottom container (1) when the top container is inserted into the interior of said tubular neck (2), an interior of said flap (9) having a first circumferential ring-shaped rib (10) arranged to engage with the peripheral edge (4) of the tubular neck (2) of the bottom container when the top container is inserted into the interior of said tubular neck (2); (d) a tubular sleeve (15) having a bottom end and a top end, the bottom end being defined by a beveled edge (17) and the top end being closed by a truncated cone (20, 20'), the bottom end of the tubular sleeve being sized and shaped to be received within the open end of the top container, wherein the tubular sleeve (15) may be moved axially within the top container so that the beveled edge (17) tears the tearable bottom (28) of the top container; characterized in that the tubular neck (2) of the bottom container (1) comprises in addition to the first circumferential peripheral edge (4), a second circumferential peripheral edge (3); in that the interior of the flap (9) of the top container comprises in addition to the first circumferential ring-shaped rib (10), at least a second circumferential ring-shaped rib (10'); and in that said peripheral edges (3, 4) and said ring-shaped rib (10) are provided with vertical striae, whereby the striae of said peripheral edges (3, 4) are arranged to engage the striae of said ring-shaped ribs (10) when the top container is inserted into the interior of the tubular neck (2) of the bottom container (1).

Complete Specification No of Pages 30

Drawings Sheets 6

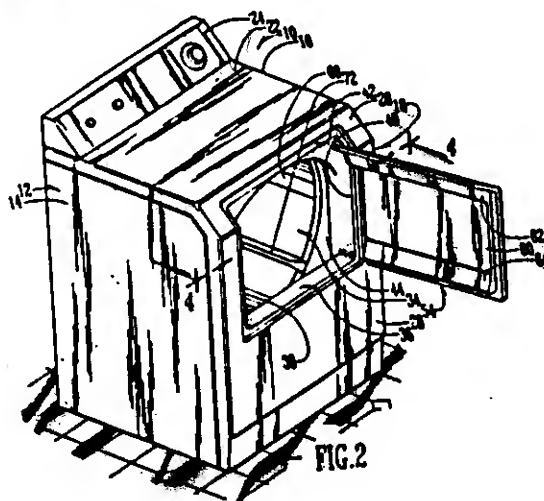


Indian Classification	:-	62 E	192811
International Classification <sup>7</sup>	:-	D06 F 35/00	
Title	:-	"A Laundry Device."	
Applicant	:-	Maytag Corporation, 403 West 4th Street Nort Newton, Iowa 50208 US. a Delaware corporation.	
Inventors	:-	JOHN CHRISTOPHER MILLET -U.S.A.	
Kind of Application	:-	COMPLETE	
Application for Patent Number	1635/Del/1995	filed on	04/09/1995

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office , New Delhi  
Branch - 110 008.

( Claims 11 )

A laundry device comprising: a cabinet (12) forming an enclosed compartent; (48) a cylindrical drum (66) rotatably mounted within said compartment (48), said drum (66) forming a fabric enclosure for containing laundry therein and having an uncovered drum access opening (74) providing communication into said fabric enclosure, said drum provided with opposite axial ends, said drum access opening (74) being in one of said opposite axial ends; said cabinet (12) having exterior front and top cabinet surfaces formed by cabinet front (18) and top (22) walls, the front wall (18) being vertically oriented; said cabinet (12) having a cabinet access opening (34) therein adjacent said drum access opening (74) and providing direct communication through said cabinet (12) and said drum access opening (74) into said fabric enclosure; a cabinet door (54) operable for movement from an open position to a closed position in covering relation over said cabinet access opening (34); characterized by said cabinet access opening (34) being formed in both of said cabinet front wall (18) and said cabinet top-wall (22) and having a perimeter extending therearound; whereby said door (54) in the open position provides unhindered combined top and front access into said fabric enclosure.



Complete Specification

No of Pages

12

Drawings Sheets

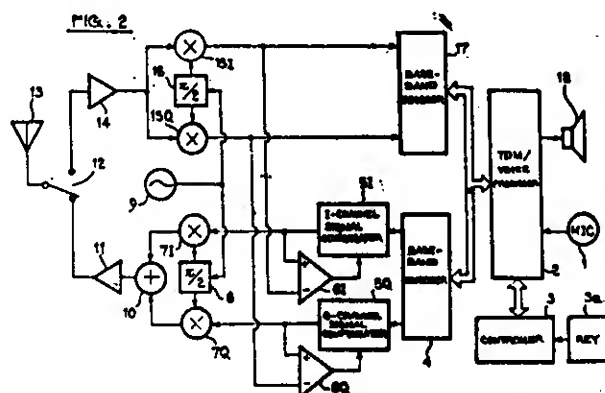
3

Indian Classification	:-	206 F	192812
International Classification <sup>7</sup>	:-	H 04 B 7/00	
Title	:-	" A Transmitting - Receiving Apparatus ".	
Applicant	:-	Sony Corporation, of 7-35, Kitashinagawa, 6-Chome, Shinagawa-ku, Tokyo, Japan.	
Inventors	:-	SEIJIRO ISHIZUKA - JAPAN.	
Kind of Application	:-	COMPLETE	
Application for Patent Number	2165/del/1995	filed on	24/11/1995

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office , New Delhi  
Branch - 110 008.

( Claims 04 )

A transmitting-receiving apparatus, characterized by: - control means (3); - data processing means (2) controlled by said control means for processing transmitted data and received data so as to be communicated at different timings; - a transmission-system circuit having an encoder (4) for producing a transmission baseband signal from the transmitted data supplied thereto from said data processing means; - modulating means (7I, 7Q) for producing a transmitted signal from said transmission baseband signal; - a power amplifier (11) for amplifying said transmitted signal; - a reception-system circuit having demodulating means (15I, 15Q) for producing a reception baseband signal from a received signal; - a decoder (17) for producing said received data from said reception baseband signal; and - switch means (12) controlled by said control means for selectively connecting said transmission-system circuit or said reception-system circuit to an antenna (13).



Complete Specification

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23

Drawings Sheets

03

Indian Classification	:-	128 I	192813
International Classification <sup>7</sup>	:-	A 61B 5/08	
Title	:-	"A device for the measurement of thoracic gas volume for diagnosis of lung diseases"	
Applicant	:-	Council of Scientific and Industrial Research, Rafi Marg, New Delhi - 110 001, India, an Indian registered body incorporated under the Registration of Societies Act.	
Inventors	:-	ANURAG AGRAWAL - INDIAN	
Kind of Application	:-	COMPLETE	
Application for Patent Number		1794/del/1995	filed on 23/9/95

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi Branch - 110 008.

( Claims 2 )

An improved device for measuring thoracic gas volume (TGV) useful for diagnosis of lung diseases which comprises; a mouthpiece (f) connected to one end of pneumotach (g) which is a flow sensing device, the other end of pneumotach being connected to a three way opening (I, II, III) tube (h), the opening (II) away from the pneumotach is provided with a shutter (ii) which is placed at the end of tube (h) and which upon closure by means of a foot operated pedal causes to change the breathing path so as to include additional resistance (Rext) (j) provided near the third opening (III).

Complete Specification

No of Pages

15

Drawings Sheets

4

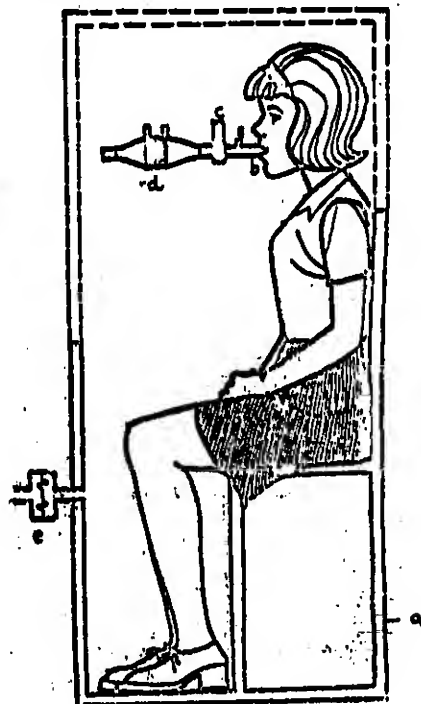


Figure 1

Indian Classification	:-	174 D	192814
International Classification <sup>7</sup>	:-	C 21D.9/02	
Title	:-	"Process of manufacturing coiled spring".	
Applicant	:-	Steel Authority of India Limited, Research and Development Centre For Iron and Steel, A Govt. Of India Enterprises Having its Registered Office at Ispat Bhawani Lodhi Road, New Delhi - 3.	
Inventors	:-	MADAN LAL NARULA - INDIAN RAMASWAMY SHRINIVAS - INDIAN ATUL SAXENA - INDIAN	
Kind of Application	:-	COMPLETE	
Application for Patent Number	1077/del/1995	filed on	13/06/1995

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi Branch - 110 008.

( Claims 2 )

A process of manufacturing improved superalloy coiled springs, comprising the following steps in sequence :

(a) hot-rolling a superalloy steel of chemical composition (by weight %): C - 0.06, Mo - 0.08, Fe - 6.80, S - 0.001, Si - 0.015, Cu - 0.015, Cr - 15.4, Al - 0.54, Ti - 2.47, Nb - 0.87 and Ni - the balance, into wire rods of diameter 10 mm;

(b) annealing the hot-rolled wire rods; (c) quenching the wire rods to room temperature; (d) pickling/grinding the surface of the wire rods to remove the oxidised scales therefrom; (e) butt-welding the rods at the adjacent ends thereof; (f) coiling the wire rods in the right hand direction to convert the same into helical compression type springs of outside diameter 37.0 mm (max.), inside diameter 19.2 mm (min.), average diameter 25.0 mm, number of working turns 4.3, number of total turns 5.8, free length 60.0 mm (max.), solid height 47.0 mm and closed ground ends debarred internally and externally; and (g) heat-treating the springs; characterised in that (i) annealing of the wire rods produced in step (b) is performed by heating the wire rods in an electrically heated furnace in hydrogen atmosphere at a temperature upto 1150°C, soaking at 1150°C for 2 hours and cold rolling to a diameter of 8.3 mm; and (ii) heat-treating of the springs produced in step (g) is carried out by heating the springs in an electrically heated muffle furnace at 760°C  $\pm$  10°C for 1 hour, allowing the springs to cool in the muffle furnace to 620°C in 5 hours either in steps of 14°C per 30 minutes or continuously, discharging the springs from the muffle furnace and cooling the springs to room temperature by applying forced air thereon.

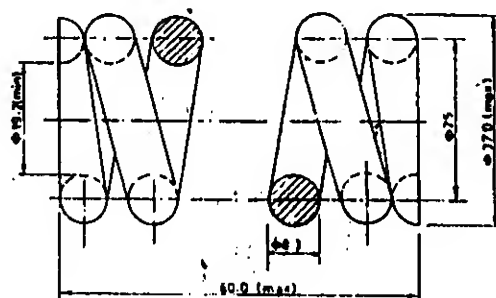


Fig. 1



Indian Classification	-	28 C	192815
International Classification <sup>7</sup>	-	F 23C 1/08 F 23D 17/00	
Title	-	"An improved burner operable from lean gases and low viscous oils supplied simultaneously or singly".	
Applicant	-	Steel Authority of India, Ltd., Research and Development Centre for Iron & Steel, a Government of India Enterprise, having registered office at Ispat Bhawan, Lodi Road, new Delhi - 110 003.	
Inventors	-	THODIMI SREENIVASA REDDY - INDIAN PRABHAS - KUMAR - INDIAN VAIDYANATHAN TAMARAI SELVAN - INDIAN INDRA NATH PRASAD GUPTA - INDIAN RAMANATH - NALLA - INDIAN	
Kind of Application	-	COMPLETE	
Application for Patent Number	2234/del/1995	filed on	04/12/1995

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi Branch - 110 008.

( Claims 6 )

An improved burner operable from lean gases and low viscous oils supplied simultaneously or singly, which is suitable for generating a high thrust and firmly anchored flame of adjustable shape for use in heat treatment and reheating furnaces, comprising a refractory quarl block (14), characterised in that the said burner comprises three concentric tubes (1, 4, 6) with their respective flow control valves (7, 8, 9) at their inputs, the said tubes acting respectively as oil pipe, air pipe and gas pipe, an oil nozzle (2) the input end of which is detachably and co-axially fitted at the outlet of said oil pipe, an air nozzle (3) the input end of which is detachably and co-axially fitted at the outlet of said oil nozzle and a gas nozzle (5) the input end of which is detachably and co-axially fitted at the outlet of said air nozzle and the outlet of which is fitted detachably and co-axially at the input end of said refractory quarl block.

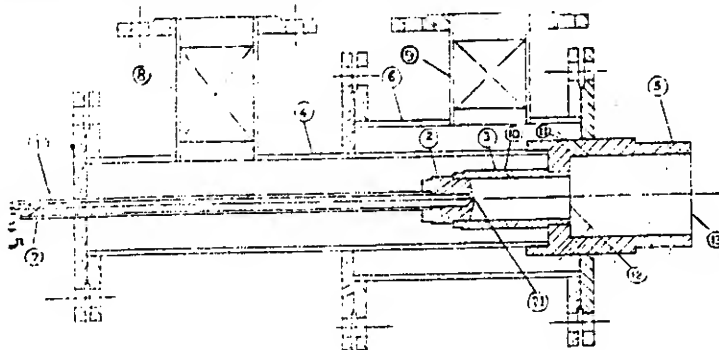


Fig. 1

Complete Specification

No of Pages

10

Drawings Sheets

03

Indian Classification	32 F	192816
International Classification <sup>7</sup>	B01J 29/28 C07C 2/66 C07C 6/12B	
Title	"AN IMPROVED PROCESS FOR THE PREPARATION OF PARA DI-ALKYL BENZENE."	
Applicant	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi – 110 001, INDIA, an Indian body incorporated under the Registration of Societies Act (XXI of 1860) and HINDUSTAN POLYMERS a unit of McDowell & Co. Ltd., and Indian Co. registered & incorporated under the co. Act. VII of 1913 having its registered office McDowell House, 3, 2 nd Line Beach Madras 600 001.	
Inventors	BOLLAPRAGADA SHESHAGIRI RAO – INDIAN IKKANDATH BALAKRISHNAN - INDIAN RAFIQUE AHMED SHAIKH – INDIAN PAUL RATNASAMY - INDIAN SWAPAN KUMAR BHOWMIK - INDIAN MOOTHA PRASAD BABU - INDIAN	
Kind of Application	Complete	

Application for Patent Number 503/Del/95 filed on 21<sup>st</sup> March. 1995.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office Branch, New Delhi – 110 008.

### ( 3 Claims )

An improved process for the production of p-dialkyl benzene which comprises of contacting alkylbenzene or a mixture of alkylbenzene with ethanol in a mole ratio of 1 to 10 and a catalyst composite material prepared by the process such as herein described a temperature in the range of 300 to 400°C, pressure in the range of 1 to 10 bar and weight hourly space velocity of the total feed between 1 to 10 hour and separating the para-diethylbenzene by conventional methods.

(C) Specific to the Patent Office, New Delhi (Shri Nil Sheen)

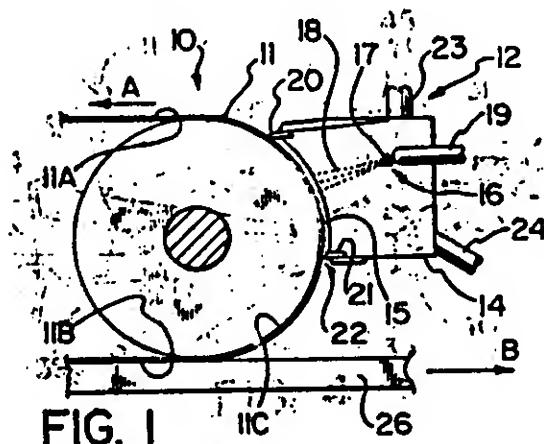
Indian Classification	:-	108 C3	192817
International Classification <sup>7</sup>	:-	B22D 11/06	
Title	:-	"A Process for Manufacturing a Metal Strip and an Apparatus for the same."	
Applicant	:-	Alcan International Ltd., a Canadian company, of 1188 Sherbrooke Street West, Montreal, Quebec, Canada H3A 3G2.	
Inventors	:-	JOHN - SULZER -CANADA, OLIVO GIUSEPPE SIVILOTTI -CANADA, RONALD ROGER DESROSIERS -CANADA.	
Kind of Application	:-	COMPLETE/CONVENTION	
Application for Patent Number	1312/Del/1995	filed on	13/07/1995
Convention No.	2,128,398/Canada/19/07/1994		
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office , New Delhi Branch - 110 008.			

( Claims 30 )

A process for manufacturing a metal strip, wherein the process is characterized by: (a) continuously injecting, in the manner such as herein described molten metal of the kind such as herein described into a mould having at least one casting surface that is continuously recirculated through said mould, and (b) continuously removing a metal strip of solidified metal obtained from said mould in said (step-a) following cooling of said metal, in the manner such as herein described; (c) continuously applying, in the manner such as herein described a layer of a parting agent of the kind such as herein described uniformly to said at least one casting surface before said casting surface is contacted by said molten metal in said mould; and (d) optionally continuously removing, in the manner such as herein described substantially all of said parting agent and any detritus contained in said parting agent, from said at least one casting surface after said casting surface emerges from said mould but before said surface undergoes application of further parting agent prior to further contact with molten metal in said mould.

Complete Specification	No of Pages	28
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Drawings Sheets	3
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Indian Classification :- 117 b **192818**

International Classification<sup>7</sup> :- A 47 H

Title :- "A door viewer mounted in a door."

Applicant :- Arun Kumar, an Indian national of 12 Sham Nath Marg,  
Delhi-110 054

Inventors :- ARUN - KUMAR -INDIA.

Kind of Application :- COMPLETE

Application for Patent Number 1048/Del/1995 filed on 08/06/1995

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi Branch - 110 008.

( Claims 6 )

A door viewer comprising: two prisms (9, 9) with their hypotenuse surfaces abutting each other to produce a bright inverted real image of a caller, a front convex lens (4) having a radius of curvature of the front concave surface larger than that of its rear convex surface for producing an erect real image of said caller by inverting said inverted real image produced by said plurality of prisms (9, 9), an intermediate convex lens (4) for widening the angle of view and magnifying said erect real image derived from said front convex lens (4), characterized in that a rear convex eyepiece lens (4'') having a shorter focal length than that of said intermediate convex lens (4') is disposed at a distance corresponding to a focal length of said intermediate convex lens (4') for formation of a bright and clear erect real image of said caller.

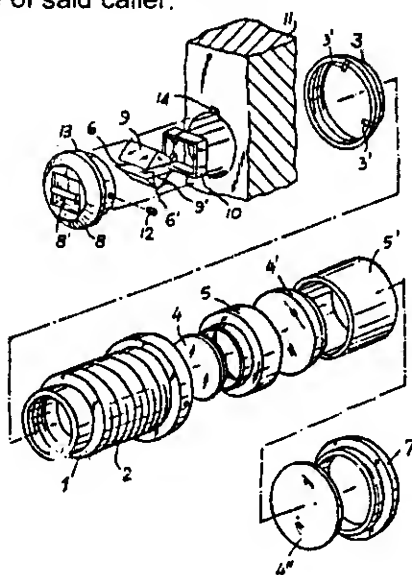


Fig. 1

Complete Specification

No of  
Pages

09

Drawings  
Sheets

02

Indian Classification	-	125 B3	<b>192819</b>
International Classification <sup>7</sup>	-	B 65G 65/48	
Title	-	"Micro-Metering Device."	
Applicant	-	Buehler AG., a Swiss company, of CH-9240 Uzwil, Switzerland	
Inventors	-	PETER - NAF SWITZERLAND. CHRISTIAN - BUHLER -SWITZERLAND.	
Kind of Application	-	COMPLETE	
Application for Patent Number	1446/Del/1995	filed on	02/08/1995

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi Branch - 110 008.

( Claims 7 )

A micro-metering device for metering small quantities for the continuous delivery of bulk materials, said device comprising a weigh container (2) with discharging aids, such as herein described and a metering screw (3), the weigh container (2) having an at least partially flat base (14) and relief base (11) with a pressure relieved product transfer aperture (15) leading to the metering screw (3), and a clearing connecting means (5,6) being provided above the base (14) and above the relief base (11), respectively, and the weigh container (2) being suspended on weigh elements (16) and being provided with an air sluice, characterized in that the product transfer aperture (15) is connected directly above an intake area of the metering screw (3) and the relief base (11) is provided with a slot-shaped drop aperture (12) for the product.

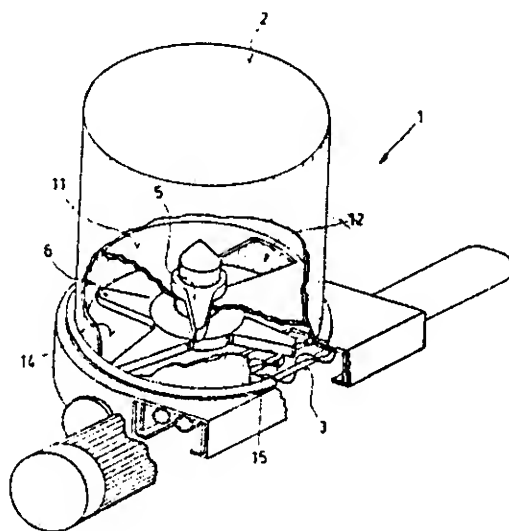


Fig. 1

Complete Specification

No of Pages

09

Drawings Sheets

2

Indian Classification	:-	188	192820
International Classification <sup>7</sup>	:-	B05 B 13/06	
Title	:-	"Coating apparatus and method for applying a coating to a length of horizontally oriented metal tubing."	
Applicant	:-	Allied Tube & Conduit Corporation, of 16100 South Lathrop Avenue, Harvey, Illinois 60426, United States of America, a Delaware corporation.	
Inventors	:-	MANZOOR AHMAD CHUDHARY -U.S.A., JEFFREY LEE LAMBER -U.S.A., BRUCE E. LAUMANN -U.S.A., EDWARD E. MILD -U.S.A., BRIAN GENE MUICK -U.S.A., STEPHEN THOMAS NORUILAS -U.S.A., DAVID SIMON PLINER -U.S.A., STEPHEN EUGENE SEILHEIMER -U.S.A.	
Kind of Application	:-	COMPLETE/CONVENTION	
Application for Patent Number		838/Del/1995	filed on 08/05/1995
Convention No.	08/243,583/United States of America/16/05/1994		
Convention No.	08/388,972/United States of America/14/02/1995		
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi			
Branch - 110 008.			

( Claims 30 )

Coating apparatus for applying a coating to a length of horizontally oriented metal tubing (16) moving along a linear path (17) concentric with said tubing and defining a vertical plane comprising: a coating chamber (10) defining a vertical central axis for applying said coating to said tubing while said tubing is being passed through said chamber (10) along said linear path (17), said coating chamber (10) comprising an exit port (14) and an entry port (12) through which said tubing (16) passes, a vacuum port (24/26) for outflow of air from said chamber (10) and a liquid supply port (56) for inflow of liquid coating material; a reservoir (32) of coating material; a supply line (36) for carrying coating material from said reservoir (32) to said liquid supply port; a supply pump for effecting flow of coating material through said supply line (36) and into said coating chamber (10) through said supply port; a vacuum line (30) connected to said vacuum port (24/26) for receiving outflow of air from said coating chamber; a primary separation chamber (24) spaced from said coating chamber (10) for receiving airflow from said vacuum line (30) and effecting separation of air from coating material; a vacuum pump (28) maintaining subatmospheric pressure in said primary separation chamber (24) so that ambient air flows into said coating chamber (10) through said exit port (11), then through said vacuum line to said primary separation chamber; and a guide for enabling said coating chamber (10) to follow the movement of said tubing (16) in said vertical plane during coating of said tubing (16) and for carrying said coating chamber (10) with said tubing (16) during accidental displacement of said tubing (16) to a location remote from said linear path (17) whereby damage to said primary separation chamber (24) and said coating chamber (10) is minimized during accidental displacement of said tubing (16) from said linear path (17).

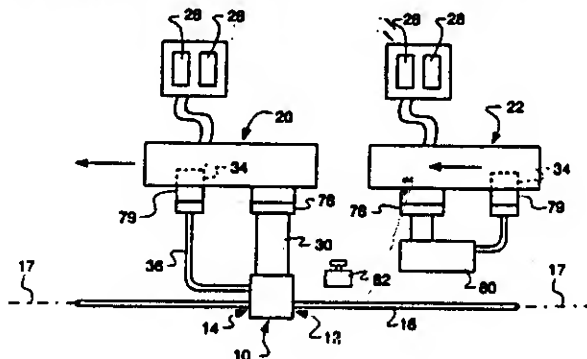


Fig. 1

Indian Classification	:	182 C	192821
International Classification <sup>7</sup>	:	C13K 11/00	
Title	:	"AN IMPROVED PROCESS FOR THE PRODUCTION OF FRUCTOOLIGOSACCHARIDES USING CULTURE BROTH OF AUREOBASIDIUM PULLULANS."	
Applicant	:	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi – 110 001, INDIA, an Indian body incorporated under the Registration of Societies Act (XXI of 1860).	
Inventors	:	SIDDALINGAIYA GURUDUTT PRAPULLA PARIYARATH TBONDRE SANGEETHA MYSORE NAGARAJA RAO RAMESH - ALL INDIANS	
Kind of Application	:	Complete	

Application for Patent Number 411/Del/2001 filed on 29<sup>th</sup> March 2001.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi – 110 008.

( 6 Claims )

An improved process for the production of fructooligosaccharides (FOS) using culture broth of Aureobasidium pullulans having characteristics such as herein described, which comprises,

- (a) growing culture of said Aureobasidium pullulans in a medium consisting of 20 % sucrose, 0.5% yeast extract, 0.05% MgSO<sub>4</sub>, 7H<sub>2</sub>O, 1% NaNO<sub>3</sub>, 0.25 % K<sub>2</sub>HPO<sub>4</sub>, 0.25% KH<sub>2</sub>PO<sub>4</sub>, 0.25% NaCl and 0.5% NH<sub>4</sub>Cl and growing for a period of 48-120h under submerge fermentation conditions,
- (b) sonicating the entire culture broth at a low temperature ranging 0-6<sup>0</sup>C for 7-20 min at 5-25 kHz,
- (c) centrifuging the sonicated broth at 6000 rpm for 20 min at low temperture ranging 0-6<sup>0</sup>C,
- (d) incubating the supernatant with the substrate having concentration 660 g/lit. for 25-36h at 55<sup>0</sup>C, pH 5, to get FOS with yield percentage 55% after 12 hour incubtion, the said process is characterized in getting higher yield (55%) after short duration incubation.

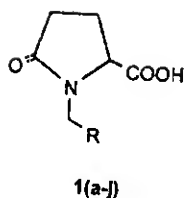
((Complete Specification 17 Pages Drawings Nil Sheet))

Indian Classification	:	32 C; 55 E4	192822
International Classification <sup>7</sup>	:	C07C 103/00; A61K 31/16	
Title	:	"A PROCESS FOR THE PREPARATION OF 1-ARYLALKYL-5-OXO- PROLINE CARBOXAMIDE USEFUL AS THROMBIN INHIBITORS."	
Applicant	:	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001, INDIA, an Indian body incorporated under the Registration of Societies Act (XXI of 1860).	
Inventors	:	DINESH KUMAR DIKSHIT MADHU DIKSHIT STUTI SRIVASTAVA PRASHANT SHARMA - ALL INDIANS	
Kind of Application	:	Complete	

Application for Patent Number 1206/Del/2001 filed on 29<sup>th</sup> Nov. 2001.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi - 110 008.

#### ( 7 Claims )



A process for the preparation of 1-arylalkyl-5-oxo-proline carboxamide of the general formula 3 (a-x) of the drawing accompanying the specification useful as thrombin inhibitors wherein R is selected from the group consisting of phenyl, o-methoxyphenyl, o-chlorophenyl, m-bromophenyl, p-bromophenyl, p-cyanophenyl, p-methyl phenyl, 2-phenyl-1-ethenyl, o,o'-dichlorophenyl and 2-phenylethyl; R<sub>1</sub> is H; R<sub>2</sub> is selected from 4-pyridinyl methyl and N-(benzyloxycarbonyl)-4-piperidinyl methyl; R<sub>1</sub>R<sub>2</sub> together is selected from -(CH<sub>2</sub>)<sub>n</sub>-CH(CH<sub>2</sub>NHCOOtBu)-(CH<sub>2</sub>)<sub>m</sub>- [where n=1, m=3 or n=2, m=2] and -(CH<sub>2</sub>)<sub>2</sub>-N(aryl)-(CH<sub>2</sub>)<sub>2</sub>-, said process comprising reacting one mole equivalent of 1-arylalkyl-5-oxo-proline of formula 1 (a-j) of the drawing accompanying the specification with one mole equivalent of primary or secondary amine of formula 2 (a-e) of the drawing accompanying the specification in an aprotic solvent in the presence of a tertiary amine base using a carboxylate activating agent, at a temperature ranging between -20°C to 40°C for a period ranging from 2-8 hrs., concentrating the above said reaction mixture under reduced pressure and recovering 1-arylalkyl-5-oxo-proline carboxamide by conventional column chromatographic methods.

(Complete Specification 17 Pages Drawings / Sheet)



Indian Classification	:	55 E, 32 C	<b>192823</b>
International Classification <sup>7</sup>	:	C 12 N 15/00; A61 K 31/00; A 61 P 19/00.	
Title	:	“ AN IMPROVED PROCESS FOR THE PREPARATION OF A HYDROPHILIC BONE INDUCTIVE PROTEIN”.	
Applicant	:	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi, India, an Indian Registered body incorporated under the Registration of Societies Act.	
Inventors	:	MYTHILI JAYARAMAN THOTAPALLI PARVATHALESWARA SASTRY BOTH INDIAN.	
Kind of Application	:	COMPLETE	

Application for Patent Number 495/del/99 filed on 31.3.99.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office Branch, New Delhi – 110 005.

(18 Claims)

An improved process for the preparation of a hydrophilic bone inductive protein, which comprises

- i) Washing calcified tissue with water at a temperature in the range of 4-20<sup>0</sup>C,
- ii) degreasing the washed tissue using organic solvent at a temperature in the range of 4-20<sup>0</sup>C, to obtain defatted tissue,
- iii) demineralising the defatted tissue, as formed in step (ii),
- iv) treating the demineralised tissue, as formed in step (iii), with proteoglycan removing agent at a temperature in the range of 4-20<sup>0</sup>C and a pH in the range 6-8,
- v) treating the proteoglycan free tissue, as formed in step (iv), with Non Collagen us protein (NCP) removing salt extract for 18-24 hrs at a temperature in the range of 4-20<sup>0</sup>C and a pH in the range of 7-8.5,
- vi) extracting the resulting tissue, as formed in step (v), using a mixture of dissociative extracting solution and protease inhibitor at a temperature in the range of 4-20<sup>0</sup>C,
- vii) dialyzing the extracts, as formed in step(vi), for a period in the range of 48-72 hrs, against water,
- viii) separating the dialysate, as formed in step (vii), by known method,
- ix) resolubilising the residue, as formed in step(viii), in a buffer followed by redialysing for a period of 7-11 hrs, against water,
- x) lyophilizing the resulting dialysate, as formed in step(ix), by conventional method,
- xi) sterilizing the lyophilized product, as formed in step(x), at a temperature not exceeding 20<sup>0</sup>C, by known methods, to obtain the hydrophilic bone inductive protein.

(COMPLETE SPECIFICATION 27 PAGES

DRAWING SHEET-NIL)

Indian Classification	: 32 C	192824
International Classification <sup>7</sup>	: A23J 3/16	
Title	: "AN IMPROVED PROCESS FOR THE PREPARATION OF SOY PROTEIN HYDROLYSATE FROM LEGUMES."	
Applicant	: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001, INDIA, an Indian body incorporated under the Registration of Societies Act (XXI of 1860).	
Inventors	: APPU RAO GOPALA RAO APPU RAO HOLE NARASIPURA NANJUNDAIAH CHANDRASEKHARA KARADKA GOVINDARAJU JOHNY JOSEPH KOLARA SUBRAMANYAM KRISHNA MURTHY VISHWESHWARIAH PRAKASH MYSORE CHELUVARAYA SHAMANTHAKA SASTRY - ALL INDIANS	
Kind of Application	: Complete	

Application for Patent Number 1355/Del/99 filed on 11<sup>th</sup> Oct. 99.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi - 110 008.

( 7 Claims )

An improved process for the preparation of soy protein hydrolysate from legumes, which comprises hydrolyzing aqueous slurry of defatted soy flour containing 30 solids w/v, using papain enzyme at pH 5 to 9 and temperature  $53 \pm 3^{\circ}\text{C}$  under stirring for 30 minutes to 6 hours, inactivating the enzyme in a known manner, separating the solids and drying the clarified supernatant so obtained to get protein hydrolysate.

(Complete Specification 14 Pages Drawings Nil Sheet)

Indian Classification	:	55E <sub>4</sub>	192825
International Classification <sup>4</sup>	:	A 61K 31/00; C07C-233/05	
Title	:	<b>"A PROCESS FOR THE PRODUCTION OF [(6-O-β-D-GLUCOPYRANOSYL)OXY]BENZENE ETHYLAMINE".</b>	
Applicant	:	<b>COUNCIL OF SCIENTIFIC &amp; INDUSTRIAL RESEARCH</b> , Rafi Marg, New Delhi-100 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).	
Inventors	:	<b>SUNIL KUMAR CHATTOPADHYAY VINAYAK TRIPATHI KONENI VENKATA SASHIDHARA ARUN KUMAR TRIPATHI VEENA PRAJAPATI SUSHIL KUMAR-ALL INDIAN.</b>	
Kind of Application	:	COMPLETE	

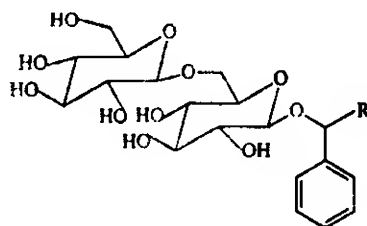
Application for Patent Number 1124/DEL/2000 filed on 08/12/2000.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office Delhi Branch, New Delhi – 110 008.

(07 Claims)

A process for the production of [(6-O-β-D-glucopyranosyl-β-D-glucopyranosyl)oxy] benzene ethyl amine of formula (1) which comprises:

- (i) extracting dried pulverized seeds of *T. wallichiana* with alcohol as herein described at a temperature of 20 to 40°C,
- (ii) evaporating the solvent by conventional methods as herein described to obtain a residue,
- (iii) purifying the amygdalin (6-O-β-D-glucopyranogyl-β-D-glucopuranogl)oxybenzene acetonitrile by conventional column chromatography wherein column is eluted with organic solvents as herein described and adsorbents as herein described,
- (iv) dissolving amygdalin obtained in step (iii) in a lower aliphatic alcohol as herein described,
- (v) hydrogenating by known hydrogenation method as herein described in presence of catalyst selected from 10% Pd/C or PtO<sub>2</sub> for a period of 6-72 to get the compound of formula (1).



1 R= CH<sub>2</sub>NH<sub>2</sub>  
2 R= CN

(Complete Specification Pages 10 Drawing NIL Sheets)

Indian Classification	:	55E <sub>4</sub>	192826
International Classification <sup>4</sup>	:	A 61K 31/00	
Title	:	<b>“HIGH YIELDING SUBSTRATE FOR CULTIVATION OF MUSHROOMS USING COIR WASTE”.</b>	
Applicant	:	<b>COUNCIL OF SCIENTIFIC &amp; INDUSTRIAL RESEARCH</b> , Rafi Marg, New Delhi-100 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).	
Inventors	:	<b>SAMASUNDARAM RAJARATHNAM ZAKIA BANO MYSORE NANJARAJURS SHASHIREKHA- ALL INDIAN.</b>	
Kind of Application	:	COMPLETE	

Application for Patent Number **278/DEL/2000** filed on **16/03/2000**.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) <sup>PART 2</sup> Patent Office Delhi Branch, New Delhi – 110 008.

(03 Claims)

A process for manufacture of high yielding substrate for cultivation of mushrooms using coir waste which comprises pretreating the coir waste with hot water at 70°C for 15 minutes followed by draining excess water, resoaking in tap water for 2 to 3 hours followed by draining excess water mixing the above said pretreated coir waste with the cellulosic agro waste such as herein described in 80:20 ratio (w/w) and spawned to obtain modified coir waste having lignin: carbohydrate ratio 1:0.094.

(Complete Specification    Page s 11 Drawing    NIL    Sheets)

Indian Classification : 55 E 4 192827

International Classification<sup>4</sup> : C12 P—007/02; C07 C—045/00; 435/149 5/149

Title : **“A PROCESS FOR THE PREPARATION OF 3-SULFANYL CYCLIC KETONES”.**

Applicant : **COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH**, Rafi Marg, New Delhi-100 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : **RAVINDRANATHAN THOTTAPPILLIL  
RADHIKA DILIP WAKHARKAR  
HANUMANT BAPURAO BORATE  
POPAT DNYANDEO SHINDE  
VISHAL ASHOK MAHAJAN  
VASUDHA HEMANT TILLU  
SUREKHA SADASHIV GHUMARE  
HANUMANT SHAHAJI JAGTAP –  
ALL INDIAN.**

Kind of Application : COMPLETE

Application for Patent Number **299/DEL/2000** filed on **23/03/2000**

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003): Patent Office Delhi Branch, New Delhi – 110 008.

(07 Claims)

A process for the preparation of 3-sulfanyl cyclic ketones of the general formula 3

of the drawing accompanying the specification wherein; A is methylene or thylene, R<sub>1</sub> may be hydrogen or methyl-7-heptanoate, R<sub>1</sub> may be hydrogen, hydroxy, ter-butyldimethylsilyloxy, triethylsilyloxy, or trimethylsilyloxy; and R<sub>2</sub> may be 4-chloro thiophenyl 4-methylthiophenyl, 2-hydroxyethylsulfanyl, 2-hydroxy-3-(4-methoxyphenoxy) propylsulfanyl, 2-hydroxy-3-(1-naphthoxy)propyl-sulfanyl or 2-hydroxy-3-(2-naphthoxy) propylsulfanyl, which comprises; dissolving cyclic  $\alpha,\beta$ -unsaturated ketone (enone) in an organic solvent, such as herein described mixing thiols, adding x-type metal doped zeolite catalyst under stirring at  $-10^{\circ}$  C to  $10^{\circ}$  C, continuing agitation for a period of 1.5 to 2hr, warming the reaction mixture to room temperature, stirring further for a period of 24 to 50 hr, separating the catalyst by conventional filtration methods to obtain organic layer over a conventional dehydrating agent, concentrating the dehydrated organic layer by known methods to obtain crude product, purifying the crude product by conventional chromatographic methods to obtain 3-sulfanyl cyclic ketones.

(Complete Specification Pages : 7 Drawing 01 Sheet)

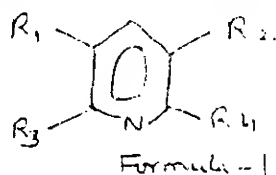
Indian Classification	:	32 F2	<b>192828</b>
International Classification	:	C 07D 213/00	
Title	:	"A PROCESS FOR THE PREPARATION OF PYRIDINE".	
Applicant	:	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg New Delhi – 110 001.	
Inventors	:	SHIVANAND JANARDAN KULKARNI – INDIAN KONDAPURAM VIJAYA RAGHAVAN – INDIAN. NAGABANDI SRINIVAS – INDIAN VIPPAGUNTA RADHA RANI – INDIAN.	
Kind of Application	:	COMPLETE.	

Application for Patent Number 407/DEL/01 filed on 29.3.2001

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi – 110 008.

(6 Claims)

A process for the preparation of pyridine of the formula 1



Wherein,  $R_1$  and  $R_3$  are independently selected from H or methyl,  $R_2$  and  $R_4$  are methyl, which comprises contacting methyl ethyl ketone or 2-butanol or methanol with formaldehyde in the presence of ammonia in gas phase and a known zeolite ZSM-5 (zeolite secondary mobile -5) catalyst at a temperature in the range of 350-420° C and a weight hourly space velocity in a range of 0.25 to 1.00 h<sup>-1</sup> to obtain pyridine of formula 1.

(Complete Specification Pages -1      Drawing sheet -NIL-)

Indian Classification	: 32 C	<b>192829</b>
International Classification <sup>7</sup>	: C12N 15/10	
Title	: "A PROCESS FOR PREPARATION OF AN ARTIFICIAL PROMOTER."	
Applicant	: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001, INDIA, an Indian body incorporated under the Registration of Societies Act (XXI of 1860).	
Inventors	: SAMIR VISHWANATH SAVANT - INDIAN RAKESH TULI - INDIAN PRADHYUMNA KUMAR SINGH - INDIAN SHIV KUMAR GUPTA - INDIAN	
Kind of Application	: Complete	

Application for Patent Number 3322/Del/98 filed on 9<sup>th</sup> Nov. 1998.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972)  
Patent Office Branch, New Delhi - 110 008.

**( 10 Claims )**

A process for preparation of an artificial promoter SEQ ID No. 1 comprising nucleotides 1-451 for expressing transgenes at a high level in different organisms which comprises :

- a) identifying highly expressed genes from DNA sequence data base, based on their signature sequences around certain transcription/translation regulatory points that determine expression of the target genes,
- b) aligning nucleic acid sequences of said genes surrounding transcription and/or translation regulatory regions that determine expression of said genes;
- c) identifying conserved domains designated as seq. ID nos. 5-14
- d) designing a synthetic promoter SEQ. ID NO.1 comprising the placement of conserved domains identified in step c in a logical arrangement for the desired level of expression of a reporter or target gene; and,
- e) synthesizing the desired promoter as defined in step(d) by conventional molecular cloning methods,
- f) amplifying the obtained synthetic promoter at step(e) by conventional method as herein described to get desired promoter.

(Complete Specification 49 Pages Drawings 3 Sheet)

Indian Classification	:-	55-D	<b>192830</b>
International Classification <sup>7</sup>	:-	A 01N 63/02	
Title	:-	"A Process for the Preparation of a Fungicide".	
Applicant	:-	Council of Scientific and Industrial Research, Rafi Marg, New Delhi - 110 001, India.	
Inventors	:-	BALAMANI BEZBARUAH - INDIAN NEELIMA SAIKIA - INDIAN	
Kind of Application	:-	COMPLETE	
Application for Patent Number		2713/del/1998	filed on 11/09/1998

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi Branch - 110 008.

(Claims 3)

A process for the preparation of a fungicide which comprises of culturing the novel strain of Azatobactor chorocum as herein described and in a conventional nutrient medium as herein described at pH in the range of 3.5-7.5 for a period in the range of 6-72 hrs and at temperature in the range of 25-30°C by known methods, separating the residue to get the supernatant as a fungicide, purifying the supernatant by conventional chromatography methods as herein described, mixing the residue with biocompatible inert support material to get solid fungicidal product.

Complete Specification	No of Pages	8	Drawings Sheets	NIL
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Indian Classification	:	32 C	192831
International Classification <sup>7</sup>	:	C08L 67/00	
Title	:	"A SYNERGISTIC COMPOSITION OF POLYMERIC BLEND USEFUL FOR PREPARATION OF BIODEGRADABLE POLYMER DEVICE."	
Applicant	:	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001, INDIA, an Indian body incorporated under the Registration of Societies Act (XXI of 1860).	
Inventors	:	PAYYAPPILLY ANTONY THOMAS. - INDIAN TURUMELLA PADMAJA - INDIAN MOHAN GOPALKRISHNA KULKARNI - INDIAN	
Kind of Application	:	Complete	

Application for Patent Number 1772/Del/98 filed on 26<sup>th</sup> June 98.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi - 110 008.

**( 5 Claims )**

A synergistic composition of polymeric blend useful for preparation of biodegradable polymer device which comprises 1.76 to 5.28% by weight of one or more soft, fast degrading polymers such as herein described and 1.76 to 5.28% by weight of one or more rigid, slow-degrading polymers as defined herein, balance volatile organic solvent and optionally 3-20% by wt. an active ingredient.

(Complete Specification 17 Pages Drawings Nil Sheet)

Indian Classification	:	83 B4	192832
International Classification <sup>7</sup>	:	A23B 7/16	
Title	:	"A PROCESS FOR THE PREPARATION OF A COMPOSITION USEFUL FOR INCREASING SHELF-LIFE OF FRUITS AND VEGETABLES."	
Applicant	:	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001, INDIA, an Indian body incorporated under the Registration of Societies Act (XXI of 1860).	
Inventors	:	RUDRAPATNAM NARAYANASWAMY THARANATHAN SAROJA NRSING RAO HABIBUNNISA MYSORE SHIVAIAH KRISHNA PRAKASH - ALL INDIANS	
Kind of Application	:	Complete	

Application for Patent Number 3692/Del/98 filed on 9th Dec. 98.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi - 110 008.

( 5 Claims )

A process for the preparation of a composition useful for increasing shelf-life of fruits and vegetables which comprises mixing of carboxyalkyl and hydroxyalkyl derivatives of hydrocolloid (1-2.5%) such as herein described in aqueous solution saturated and unsaturated fatty acids and their derivatives having carbon atoms upto C18 in solution form using lower aliphatic alcohols (0.5-1.4%) such as herein described, anionic emulsifier such as polyoxyethylene sorbitan monooleate (Tween-80, 0.1-0.5%), to obtain the said composition.

(Complete Specification 15 Pages Drawings Nil Sheet)

Indian Classification	:	132	192833
International Classification <sup>4</sup>	:	A 23 B—21/00, 426/52	
Title	:	<b>“AN IMPROVED PROCESS FOR THE ISOLATION OF BIXIN DYE FROM BIXA ORELLANA (ANNETO)”.</b>	
Applicant	:	<b>COUNCIL OF SCIENTIFIC &amp; INDUSTRIAL RESEARCH</b> , Rafi Marg, New Delhi-100 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).	
Inventors	:	<b>YOGENDRA NATH SHUKLA ANIL SRIVASTAVA SHITAL PRASAD JAIN SUSHIL KUMAR ALL INDIAN.</b>	
Kind of Application	:	<b>COMPLETE</b>	

Application for Patent Number **730/DEL/2000** filed on **10/08/2000**

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office Delhi Branch, New Delhi – 110 008.

(05 Claims)

An improved process for the isolation of bixin dye from Anneto seeds of *Bixa orellana* which comprises extracting Anneto seeds with atleast two polar solvents such as described in sequence of polarity, filtering and removing the solvents from the extracts by known methods, purifying the first solvent extract through column chromatography over silica gel and second through washing with non polar solvents such as herein described, allowing crystallization of the residue to obtain pure bixin dye, if desired stabilizing the above said Bixin dye by mixing it in naturally occurring acids such as herein described followed by adjusting the pH in the range between 4 to 4.5.

(Complete Specification Pages 07 Drawing NIL Sheet)

Indian Classification	:	55 F	192834
International Classification <sup>7</sup>	:	A61K 31/00; A61K 9/06	
Title	:	"A PROCESS FOR PREPARATION OF A COMPOSITON USEFUL FOR EFFECTIVE PROTECTION AGAINST THE ULTRAVIOLET (uv) RADIATION."	
Applicant	:	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001, INDIA, an Indian body incorporated under the Registration of Societies Act (XXI of 1860).	
Inventors	:	SUMAN PREET SINGH KHANUJA - INDIAN KRISHNA KUMAR AGARWAL - INDIAN TIRUPPADIRIPULIYUR RANGANATHAN SANTHA KUMAR - INDIAN ATIQUE AHMAD - INDIAN AJIT KUMAR SHASANY - INDIAN MAHENDRA PANDURANG DAROKAR - INDIAN SUSHIL KUMAR -INDIAN	
Kind of Application	:	Complete	

Application for Patent Number 1162/Del/00 filed on 15<sup>th</sup> Dec. 2000.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi - 110 008.

( 2 Claims )

A process for preparation of a composition useful for effective protection against the ultraviolet radiation which comprising menthyl benzoate ranging between 0.002-0.02% (w/w) in glycerin, cold cream, skin cream, antibiotic ointments, sunscreen lotions and any other body care compositions, said process comprises mixing by conventional manner menthyl benzoate with glycerin or any of the above ointment or lotion.

(Complete Specification 12 Pages Drawings Nil Sheet)

Indian Classification	:	55 F	192835
International Classification <sup>7</sup>	:	A61K 31/00	
Title	:	"A METHOD FOR THE PREPARATION OF ANTI MICROBIAL COMPOSITION USEFUL IN THE TREATMENT OF DRUG RESISTANT BACTERIAL INFECTIONS."	
Applicant	:	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001, INDIA, an Indian body incorporated under the Registration of Societies Act (XXI of 1860).	
Inventors	:	SUMAN PREET SINGH KHANUJA - INDIAN SUCHI SRIVASTAVA - INDIAN TIRUPPADIRIPULIYUR RANGANATHAN SANTHA KUMAR - INDIAN AJIT KUMAR SHASANY - INDIAN DHARAM CHAND JAIN - INDIAN MAHENDRA PANDURANG DAROKAR - INDIAN DHARMENDRA SAIKIA - INDIAN SUSHIL KUMAR - INDIAN	
Kind of Application	:	Complete	

Application for Patent Number 358/Del/00 filed on 31<sup>st</sup> March 2000.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi - 110 008.

( 4 Claims )

A method for the preparation of an anti microbial composition useful in the treatment of drug resistant bacterial infections the said method comprises the step of mixing  $\alpha$  arteether and quinoline drug of the kind as herein described in a ratio in the range of 8:1 to 20 : 1 in at least 1 ml neutralized sterile vegetable oil to obtain anti microbial composition.

(Complete Specification 14 Pages Drawings Nil Sheet)

Indian Classification	:	55E <sub>4</sub>	192836
International Classification <sup>4</sup>	:	A 61K 31/00	
Title	:	"A process for the preparation of (2R, 3S, 22S, 23S)-2,3,22,23-tetracetoxy-B-homo-7-oxastigmastan-6-one".	
Applicant	:	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-100 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).	
Inventors	:	ARCHNA PATIENCE MASSEY VANDANA SUDHIR PORE BRAJA GOPAL HAZRA-ALL INDIAN.	
Kind of Application	:	COMPLETE	

Application for Patent Number 727/DEL/2000 filed on 10/08/2000.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office Delhi Branch,  
New Delhi – 110 008.

(07 Claims)

A process for the preparation of (2R, 3S, 22S, 23S)-2,3,22,23-tetracetoxy -B-homo-7-oxastigmastan-6-one of formula 2 of the drawing accompanying this specification which comprises;

- a) reacting a solution of an aldehyde as herein described in a chlorinated solvent as herein described with molecular oxygen in the presence of an inorganic catalyst as herein described,
- b) stirring the reaction mixture at a temperature in the range of 20-50°C, at atmospheric pressure for a period of at least 5 hour,
- c) adding a solution of (2R, 3S, 22S, 23S)-2,3,22,23-tetracetoxy stigmastan-6-one of formula 1 of the drawing accompanying this specification in chlorinated solvent as defined above, continuing the stirring of at least 48 hours, quenching the reaction mixture by adding quenching agent as herein described,
- d) isolating and purifying the compound of formula 2 by known methods such as herein described.

(Complete Specification Pages 09 Drawing 01 Sheet)

Indian Classification	:	55E <sub>4</sub>	192837
International Classification <sup>4</sup>	:	A 23B-07/10;426/52	
Title	:	<b>“AN IMPROVED PROCESS FOR PERPARATION OF WHITE PEPPER”.</b>	
Applicant	:	<b>COUNCIL OF SCIENTIFIC &amp; INDUSTRIAL RESEARCH</b> , Rafi Marg, New Delhi-100 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).	
Inventors	:	<b>VATTACKATT BALAKRISHANAN MANILAL KALATHOOR MADHAVAN GOPINATHAN- BOTH INDIAN.</b>	
Kind of Application	:	<b>COMPLETE</b>	

Application for Patent Number **I29/DEL/2000** filed on 16/02/2000.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office Delhi Branch,  
New Delhi – 110 008.

(07 Claims)

An improved process for preparation of white pepper from matured green pepper (*Piper nigrum* L.) which comprises a) adding green pepper to salt solution medium as herein described having pH between 2 - 8.5 by known methods, b) mixing enzyme as herein described capable of degrading cell walls separately or in combination thereof, c) incubating at a temperature in the range from 15 to 50°C for a period of 15 to 25 hrs, d) removing shell by known conventional methods as herein described, e) drying by conventional methods as herein described to obtain white pepper.

(Complete Specification Pages 11 Drawing NIL Sheet)

Indian Classification	:	55E <sub>4</sub>	192838
International Classification <sup>4</sup>	:	A 61K 031/00; C07D-275/04	
Title	:	<b>“AN IMPROVED PROCESS FOR THE PREPARATION OF A <math>\alpha</math>-FORMYL ARYL ACETATES”.</b>	
Applicant	:	<b>COUNCIL OF SCIENTIFIC &amp; INDUSTRIAL RESEARCH</b> , Rafi Marg, New Delhi-100 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).	
Inventors	:	<b>INDARAPU BALKISHAN RAO ARUN KANTI DAS MALLADI PARDHASARADHI KAMARAJUGADDA VENKATA LAKSHMI-NARAYANA PRAKASH CHEMBUMKULAM KAMALAKSHYAMMA-SNEHALATHA NAIR KANDEVARI SRINIVAS-ALL INDIAN.</b>	
Kind of Application	:	<b>COMPLETE</b>	

Application for Patent Number **93/DEL/2000** filed on **03/02/2000**.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office Delhi Branch, New Delhi – 110 008.

(05 Claims)

An improved process for the preparation of  $\alpha$ -formyl aryl acetates of the formula 1 of the drawing accompanying the specification wherein R<sup>1</sup> is alkyl and R is H, alkoxy, halogen which comprises;

- i) reacting alkyl aryl acetate, an alcohol such as methanol or ethanol and organic solvent as herein described with carbon monoxide and a base as herein described at a temperature in the range of 10 to 70°C and carbon monoxide pressure in the range of 5-50 kg/cm<sup>2</sup> for a period in the range to 4 to 8 hours,
- ii) decomposing the reaction mixture with ice cold water and isolating the product from the aqueous layer by known methods such as herein described.

(Complete Specification Pages 07 Drawing 01 Sheet)



Indian Classification	:	55 E <sub>4</sub>	192839
International Classification*	:	C12N - 077/00 435/235	
Title	:	<b>AN IMPROVED CULTURE MEDIUM FOR HAEMATOCOCCUS USEFUL FOR ENHANCED CAROTENOID PRODUCTION BY HEAMATOCOCCUS CYST".</b>	
Applicant	:	<b>COUNCIL OF SCIENTIFIC &amp; INDUSTRIAL RESEARCH</b> , Rafi Marg, New Delhi-100 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).	
Inventors	:	<b>RAVI SARADA USHA TRIPATHI GOKARE ASWATHANARAYANA RAVISHANKAR -ALL INDIAN.</b>	
Kind of Application	:	<b>COMPLETE</b>	

Application for Patent Number **267/DEL/2000** filed on **16/03/2000**

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office Delhi  
Branch, New Delhi – 110 008.

(02 Claims)

An improved culture medium for Haematococcus, useful for enhanced production of carotenoid by Haematococcus cyst which comprises of 0.01 to 0.4% carbon source selected from carbon dioxide, sodium acetate and glucose, 0.0001 to 0.005 wt % of an organic nitrogen source selected from amino acids, 0.0001 to 0.02% of micronutrients selected from salts of calcium, magnesium, iron, and 0.0001 to 0.01 wt% of vitamin selected from B group.

(Complete Specification    Pages 18    Drawing    NIL    Sheet)

Indian Classification	:	55E <sub>4</sub>	192840
International Classification <sup>4</sup>	:	A 61K 31/00	
Title	:	<b>"A PROCESS FOR THE ISOLATION OF TRANS-TETRACOS 15- ENOIC ACID HAVING HEPATOPROTECTIVE ACTIVITY FROM INDIGOFERA SP."</b>	
Applicant	:	<b>COUNCIL OF SCIENTIFIC &amp; INDUSTRIAL RESEARCH</b> , Rafi Marg, New Delhi-100 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).	
Inventors	:	<b>SUKHDEV SWAMI HANDA BUPINDER SINGH BAL KRISHAN CHANDAN AJIT KUMAR SAXENA VIKRAM BHARDWAJ VISHWA NATH GUPTA OM PRAKASH SURI NARESH KUMAR SATTI KRISHAN AVTAR SURI—ALL INDIANS.</b>	
Kind of Application	:	COMPLETE	

Application for Patent Number 379/DEL/2000 filed on 31/03/2000.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office Delhi Branch, New Delhi – 110 008.

(06 Claims)

A process for the isolation of trans-tetracos-15-enoic acid having hepatoprotective activity from indigofera sp. which comprises

- (i) extracting the powdered leaves of plant indigofera sp. with a water immiscible non polar solvent such as herein described to obtain the extract, concentrating and drying the above extract by known methods to obtain a residue
- (ii) triturating the above said residue obtained in step (i) with a solvent selected from ketone having 3-5 carbon atoms to obtain a solution concentrating under reduced pressure to obtain a residue
- (iii) adsorbing the above said reduced obtained in step (ii) on Si O<sub>2</sub> gel
- (iv) eluting the column with organic solvent of increasing polarity to obtain fractions
- (v) subjecting the above said fraction to flash column chromatography or semi preparative HPLC and purification by known methods to obtain purified constituent trans-tetracos-15-enoic acid.

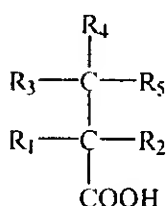
(Complete Specification Pages 09 Drawing NIL Sheets)

Indian Classification	:	32 F 3(b)	192841
International Classification <sup>7</sup>	:	C 07 C 57/03	
Title	:	"AN IMPROVED PROCESS FOR THE PREPARATION OF 2-ARYL PROPIONIC ACID".	
Applicant	:	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi, India, an Indian Registered body incorporated under the Registration of Societies Act.	
Inventors	:	RAGHUNATH VITTHAL CHAUDHARI JAYASREE SEAYAD SEAYAD ABDUL MAZEED-ALL INDIAN	
Kind of Application	:	COMPLETE	

Application for Patent Number 570/del/99 filed on 15.4.99.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office Branch, New Delhi – 110 005.

(12 Claims)



Formula II

An improved process for the preparation of 2- aryl propionic acid which comprises reacting an alcohol having the general formula I of the drawing accompanying this specification , wherein  $R_1$  may be aryl , substituted aryl, naphthyl or substituted naphthyl ,  $R_2$ ,  $R_3$ ,  $R_4$  and  $R_5$  may independently be hydrogen , alkyl, aryl, aryl alkyl, cyclo aliphatic with or without substituents, a halide source selected from the group consisting of halide salts or hydrohalic acid in the range of 5 to 500 moles a protonic acid such as herein described in the range of 5 to 500moles, water in the concentration range of 1 to 6 % (v/v) , hetrogenous ruthenium, cobalt or nickel metal as a catalyst wherein the concentration of metal is 1 mole of metal for 500 to 50000 moles of alcohol and a phosphine ligand in the range of 20 to 50 moles in an organic solvent such as herein described in the carbon monoxide atmosphere in an autoclave at a temperature ranging between 30 to 130° C, for a period ranging between 50 to 1500 psig, cooling the reaction mixture to ambient temperature, flushing the autoclave with nitrogen , separating the catalyst , removing the solvent by conventional methods and isolating the 2- aryl propionic acid of the formula II of the drawing accompanying the specification wherein  $R_1$  ,  $R_2$ ,  $R_3$ ,  $R_4$  and  $R_5$  has the same meaning as defined above.

Indian Classification	:	77 B <sub>2</sub>	192842
International Classification <sup>7</sup>	:	C11B 9/02	
Title	:	"A PROCESS FOR PREPARATION OF ODOURLESS SOYBEAN OIL."	
Applicant	:	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi – 110 001, INDIA, an Indian body incorporated under the Registration of Societies Act (XXI of 1860).	
Inventors	:	NASIRULLAH - INDIAN JAMBUR VENKATESHIAH PRABHAKAR - INDIAN	
Kind of Application	:	Complete	

Application for Patent Number 1195/Del/99 filed on 8<sup>th</sup> Sep. 1999.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office Branch, New Delhi – 110 008.

**( 5 Claims )**

A process for preparation odourless soybean oil which comprises fractionating soybean oil, characterized in that the fractionating soybean oil using at least 10% transition metal salt impregnated column and eluting the fractions using conventional non-polar solvents followed by polar solvent to get odourless soybean oil in first fraction and PUFA oil is second fraction.

(Complete Specification 17 Pages Drawings Nil Sheet)

Indian Classification	:	32 F2b	192843
International Classification <sup>7</sup>	:	C07D 501/12; A61K 31/545	
Title	:	"A METHOD FOR SIMULTANEOUS RECOVERY OF CEPHALOSPORIN-C AND DEACETYL CEPHALOSPORIN-C FROM FERMENTATION BROTH."	
Applicant	:	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001, INDIA, an Indian body incorporated under the Registration of Societies Act (XXI of 1860).	
Inventors	:	NARENDRA NATH DUTTA - INDIAN GANESH CHANDRA SAHOO- INDIAN SAMIRAN BORTHAKUR - INDIAN RAJIB LOCHAN BEZBARUAH -INDIAN	
Kind of Application	:	Complete	

Application for Patent Number 540/Del/99 filed on 8<sup>th</sup> April 99.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi - 110 008.

**( 5 Claims )**

A process for simultaneous recovery of cephalosporin-C and deacetyl cephalosporin-C from broth media which comprises growing cephalosporins in a conventional medium in a conventional way to produce the culture broth, treating the culture broth containing cephalosporin-C and deacetyl cephalosporin-C with water/oil emulsion containing known carrier and surfactant in oil phase at a pH in the range of 9 to 9.5, separating the aqueous phase enriched with cephalosporin-C by known methods, demulsifying the emulsion phase by conventional method of addition of salts and recovering the cephalosporins by known methods.

(Complete Specification 11 Pages Drawings Nil Sheet)

Indian Classification	:-	32 F2	<b>192844</b>
International Classification <sup>7</sup>	:-	C 07C 37/00, C07C 39/00	
Title	:-	"An improved process for the preparation of cycloalkylphenols".	
Applicant	:-	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001, India.	
Inventors	:-	PRODEEP - PHUKAN - INDIAN VASANTI SATYANARAYANRAO DALAVOY - INDIAN ARUMUGAM - SUDALAI - INDIAN	
Kind of Application	:-	COMPLETE	
Application for Patent Number	1561/del/1999	filed on	21/12/1999

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi Branch - 110 008.

( Claims 4 )

An improved process for the preparation of cycloalkylphenols which comprises; - (i) reacting phenolic or substituted phenolic compound of the kind as herein described with alkylating agent such as herein described in the mole ratio of 1:10 to 1:1.25 in presence of known catalyst such as herein described in the range of 5 to 20% by wt. of phenolic compound at a temperature in the range of 90-200°C for a period of 2 to 20 hrs, - (ii) cooling the reaction mixture to ambient temperature, filtering the catalyst to obtain crude reaction mixture containing product, - (iii) isolating the product from reaction mixture by known methods such as herein described.

Complete Specification	No of Pages	15	Drawings Sheets	NIL
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Indian Classification	:	55 E	192845
International Classification <sup>7</sup>	:	C12N 9/32; A61K 37/28	
Title	:	“A PROCESS FOR THE PREPARATION OF INTRACELLULAR PHENYLALANINE AMMONIA-LYASE ENZYME.”	
Applicant	:	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi – 110 001, INDIA, an Indian body incorporated under the Registration of Societies Act (XXI of 1860).	
Inventors	:	SANTOOR GURURAJA BHAT - INDIAN ABU RAGHAVAN SRINIVASAN- INDIAN NAGAJYOTHI - INDIAN	
Kind of Application	:	Complete	

Application for Patent Number 413/Del/2001 filed on 29<sup>th</sup> March 2001.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi – 110 008.

( 4 Claims )

A process for the preparation of intracellular phenylalanine ammonia – lyase enzyme which comprises growing yeast : selected from Rhodotorula glutinis (IFO 0559) in a nutrient medium containing 0.5 to 1.5% yeast extract, 0.5 to 1.5% peptone, 0.3 to 0.6% sodium chloride, 0.3 to 0.3% L-phenylalanine as inducer and 0.1 to 0.3% DL-isoleucine at a pH ranging in between 5 to 6, harvesting the cell mass by centrifugation and washing with water, freezing the above said washed cells for a period ranging in between 0-12 hrs, adding 1-50 ml of cold organic solvent per gram weight of the cells to the above said freezed cells, and gently stirring at about 4<sup>0</sup>C until the frozen pellet thawed slowly in the solvent and stirring additionally for maximum 10 more minutes, and collecting the cells by filtration and washing the cells twice with 10 ml cold acetone, air drying the collected yeast cells to obtain the desired intracellular phenylalanine ammonia-lyase enzyme.

(Complete Specification 9 Pages Drawings Nil Sheet)

Indian Classification	:	83 B5	<b>192846</b>
International Classification <sup>7</sup>	:	A23L 1/22	
Title	:	"AN IMPROVED PROCESS FOR PREPARATION OF PASTE FROM ONION AND GARLIC BULBS HAVING LONGER SHELF STABILITY."	
Applicant	:	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001, INDIA, an Indian body incorporated under the Registration of Societies Act (XXI of 1860).	
Inventors	:	NIRMALA DEVI SITARAMAN - INDIAN MANDYAM CHAKRAVARATHY VARADARAJ - INDIAN FASIHA REHANA - INDIAN EDDIYA RATI RAO - INDIAN KESHA VA NIRESHWALIA - INDIAN	
Kind of Application	:	Complete	

Application for Patent Number 370/Del/2001 filed on 27<sup>th</sup> March 2001.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972)  
Patent Office Branch, New Delhi - 110 008.

**( 5 Claims )**

An improved process for the preparation of paste from onion and garlic bulbs having longer shelf stability which comprises;

- i) descaling outer dried scales of garlic and onion by known methods,
- ii) cleaning and washing of descaled bulbs thoroughly in potable running water,
- iii) slicing of descaled and cleaned bulbs as obtained in step (ii),
- iv) brining the above said sliced bulbs as obtained in step (iii) with 1-5% brine,
- v) inoculating by adding potent microbial culture *Pediococcus acidilactici* CFR 2132 at a level of  $2 \times 10^5$  to  $2 \times 10^7$  CFU /g. having characteristics as herein described in the above said solution,
- vi) fermenting the inoculated sliced bulbs for 24 to 144 hrs at 30 to 45°C,
- vii) pulping of the fermented bulbs into paste using a mechanical device such as mixer,
- viii) filling fermented paste into sterile bottles covered with metal lids,
- ix) sterilizing by known methods as herein described of paste-filled bottles for 20-40 min at 75-95°C.

( Complete Specification 15 Pages Drawings Nil Sheet)



Indian Classification :- 32 Fb 192847

International Classification<sup>7</sup> :- C 07C 63/08

Title :- "AN IMPROVED PROESS FOR THE PREPARATION OF FOOD GRDE SODIUM BENZOATE".

Applicant :- COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, new Delhi – 110 001, India, an Indian registered body incorporated under the Registration of Societies Act.

Inventors :- KEDAR PRASAD SINGH – INDIAN  
PARAN PHUKAN – INDIAN.  
ARADHANA GOSWAMI - INDIAN

Kind of Application COMPLETE

Application for Patent Number 41/del/2001 filed on 19/01/2001

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office , New Delhi Branch - 110 008.

( Claims 4 )

An improved process for the preparation of food grade sodium benzoate which comprises: - (i) purifying crude benzoic acid methyl ester (BME) at pressure in the range of 5 to 650 mm of mercury, temperature in th3 range of 50 to 220°C at a reflux ratio of 0.25 to 3.5 using high efficiency column such as herein described to obtain purified BME, - (ii) hydrolyzing the said BME with aqueous solution of sodium hydroxide for a period of 2.5 to 4.0 hrs at a temperature 30 to 90°C dehydrating the reaction product by conventional methods, washing and purifying by known methods to get food grade sodium benzoate.

Complete Specification	No of Pages	16	Drawings Sheets	NIL
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Indian Classification	:-	32 F <sub>3d</sub>	192848
International Classification <sup>7</sup>	:-	A 61K 35/78, C 07J 75/00	
Title	:-	"A PROCESS FOR THE PREPARATION OF NOVEL PHYTO-ECDYSTEROIDS"	
Applicant	:-	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001, India, an Indian registered body incorporated under the Registration of Societies Act.	
Inventors	:-	MANOBJYOTI - BORDOLOI - INDIAN VAISHALI - CHAKRABORTY - INDIAN	
Kind of Application	:-	COMPLETE	
Application for Patent Number		166/del/2001	filed on 16/02/2001

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi Branch - 110 008.

( Claims 7 )

A process for the preparation of novel phytoecdysteroids, chemical name 2,3,9,20,21-pentahydroxy-cholest-7-en-6-one, which comprises: - (a) extracting the parts such as herein described of the plants *Taxus baccata* or *Taxus baccata var.wallichiana* with a polar organic solvent such as herein described, - (b) concentrating the extract by known methods such as herein described at a temperature in the range of 40-50°C to give residue, - (c) defatting the above said residue with non polar solvents such as herein described, extracting the defatted residue with chloroform, concentrating the chloroform extract and purifying the chloroform extract by conventional repeated chromatographic methods to give 2,3,9,20,21-pentahydroxy-cholest-7-en-6-one.

Complete Specification	No of Pages	11	Drawings Sheets	NIL
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Indian Classification :- 32 F<sub>3</sub> 192849

International Classification<sup>7</sup> A 61K 31/015

Title :- "A PROCESS FOR THE PREPARATION OF A NOVEL CIS, CIS-3-HYDROXY-5-METHYLCARBONYLOXY-CYCLOHEXYLACETATE USEFUL AS AN INTERMEDIATE FOR 6-HYDROXYMETHYL-4-(TERT-BUTYLDIMETHYLSILOXY)-4(4R,6S)-TETRA-HYDRO-2H-2- PYRANONE".

Applicant :- COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, new Delhi – 110 001, India, an Indian registered body incorporated under the Registration of Societies Act.

Inventors :- SANDEEP RAGHUNATH GHORPADE – INDIAN  
UTTAM RAMRAO KALKOTE – INDIAN  
SUBHASH PRATAPRAO CHAVAN – INDIAN  
SUNIL RAMCHANDRA BHIDE – INDIAN  
THOTTAPPILLIL RAVINDRANATHAN – INDIAN.

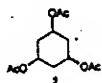
Kind of Application COMPLETE

Application for Patent Number 92/del/2001 filed on 31/01/2001

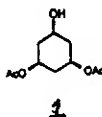
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi Branch - 110 008.

( Claims 5 )

A process for the preparation of a novel cis,cis-3-hydroxy-5-methylcarbonyloxy-cyclohexylacetate of the formula 1 useful as an intermediate for 6-hydroxymethyl-4-(tert-butyldimethylsiloxy)-(4R,6S)-tetra-hydro-2H-2-pyranone (β-hydroxymethyl-β-lactone) which comprises reacting a compound cis, cis-3,5 di (methylcarbonyloxy) cyclohexylacetate of formula 2 with a lipase enzyme in a buffer having



pH ranging from 5 to 7, at a temperature ranging from 25 to 30 °C for a period ranging between 24 to 30 hrs., extracting the reaction mixture with an organic solvent, removing the solvent by evaporation to obtain cis,cis-3-hydroxy-5-methylcarbonyloxy-cyclohexylacetate having formula 1



Complete Specification

No of  
Pages

09

Drawings  
Sheets

NIL

Indian Classification	:	55E <sub>4</sub>	192850
International Classification <sup>4</sup>	:	A 61K 31/00	
Title	:	<b>"An improved process for the preparation of 2-methyl-1,4-naphthoquinone".</b>	
Applicant	:	<b>COUNCIL OF SCIENTIFIC &amp; INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-100 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).</b>	
Inventors	:	<b>THASAN RAJU KUMARASAMY KULANGIAPPAR MANICKAM ANBU KULANDAINATHAN ARUNACHALAM MUTHUKUMARAN VENKATASUBRAMANIAN KRISHNAN- ALL INDIAN.</b>	
Kind of Application	:	<b>COMPLETE</b>	

Application for Patent Number 474/DEL/2001 filed on 12/04/2001.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office Delhi Branch, New Delhi – 110 008.

(07 Claims)

An improved process for the preparation of 2-methyl-1,4-naphthoquinone which comprises,

- I) oxidizing cerium (III) methane sulfonate in an undivided electrochemical cell at an anode current density of 10A/dm<sup>2</sup> using demensinally stable anode such as DSA/O<sub>2</sub> type and stainless steel cathode at a temperature range of 40-50<sup>0</sup> C for a period of 90 to 120 minutes to obtain cerium (IV) methanesulfonate.
- II) oxidizing 2-methylnaphthalene using cerium (IV) methanesulfonate obtained in step I) as an oxidizing agent in presence of organic solvent such as 1,2-dichloroethene or 1,2-dichloremethane at a temperature in the range of 50-90<sup>0</sup>C for a period of 1 to 1.5 hr with stirring to obtain a solution containing product 2-methyl-1,4 naphthoquinone
- III) recovering the product by known methods such as herein described.

(Complete Specification Pages 11 Drawing NIL Sheet)

Indian Classification	:-	55 D1	192851
International Classification <sup>7</sup>	:-	A 01N 65/00	
Title	:-	"A Process for the Preparation of a formulation useful for the insect free storage of cereals".	
Applicant	:-	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001, India.	
Inventors	:-	JOHN - PEREIRA - INDIAN SURESH GURAPPA MUMMIGATTI - INDIAN HULLUKERE ERAIAH KRISHNAIAH - INDIAN	
Kind of Application	:-	COMPLETE	
Application for Patent Number	94/del/2001	filed on	31/01/2001

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office , New Delhi Branch - 110 008.

( Claims 3 )

An improved process for the preparation of a formulation useful for the insect free storage of cereals, which comprises washing the fresh roots of *D. hamiltonii* followed by chipping or shredding the root material to remove the fibrous material, drying the fibre free material by freeze drying or at a temperature below 40°C using a lyophiliser or a mechanical device, powdering the dried root material using a mechanical device to obtain 50 to 100 mesh at a temperature ranging from 20-50°C, mixing a substituted phenol selected from guaiacol dissolved in an organic solvent such as herein described with the above dried root powder or its extract in the range of 0.75 to 25% (v/w), evaporating the solvent to obtain the powder formulation.

Complete Specification	No of Pages	13	Drawings Sheets	NIL
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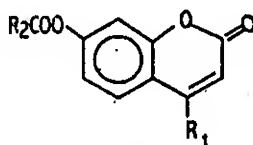
Indian Classification	:	55 E	192852
International Classification <sup>7</sup>	:	A61K 31/00	
Title	:	"A PROCESS FOR THE PREPARATION OF NOVEL 4-ALKYL-7-O-(ACETAMID-2-YL)-2H-1-BENZOPYRAN-2-ONES."	
Applicant	:	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001, INDIA, an Indian body incorporated under the Registration of Societies Act (XXI of 1860).	
Inventors	:	RAMA PATI TRIPATHI JITENDRA KUMAR SAXENA ONKAR PRASAD SHUKLA SUBHASH CHANDRA PUVADA KALPANA MURTHY SHAILJA BHATTACHARYA KAMAL KAMBOJ ANIL KUMAR DWIVEDI RANJEET KUMAR CHATTERJEE SATYAWAN SINGH VISHWA MOHAN LAL SRIVASTAVA ANIL KUMAR RASTOGI AMIYA PRASAD BHADURI- ALL INDIANS.	
Kind of Application	:	Complete	

Application for Patent Number 0047/Del/2001 filed on 19<sup>th</sup> Jan 01.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi - 110 008.

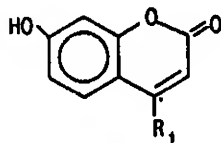
( 6 Claims )

A process for the preparation of novel 4-alkyl-7-O-alkanoyl-2H-1-benzopyran -2-ones of the general formula 2



Formula - 2

wherein  $R_1$  is an alkyl group such as methyl or ethyl or propyl or butyl and  $R_2CO$  is pentadecanoyl, tetradecanoyl and dodecanoyl which comprises the following steps (A) reacting the 4-alkyl-7-hydroxy-2H-1-benzopyran-2-ones of formula 1



Formula - 1

with alkanoyl chloride of general formula ( $R_2COCl$ ) in an organic solvent such as herein described in presence of catalyst such as herein described at a temperature ranging 0 to 100° C for a period ranging from 1 to 24 hour, b) recovering and purifying the product of formula - 2 by conventional methods such as herein described.

(Complete Specification 10 Pages Drawings 1 Sheet)

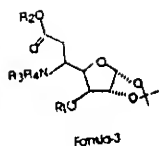
Indian Classification	: 55 E	192853
International Classification <sup>7</sup>	: C07C 101/40	
Title	: "A PROCESS FOR THE PREPARATION OF ALKYL/ARYL-3-AMINO-3-GLYCOSYLATED-PROPANOATES AND CORRESPONDING PROPANOIC ACIDS."	
Applicant	: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001, INDIA, an Indian body incorporated under the Registration of Societies Act (XXI of 1860).	
Inventors	: RAMA PATI TRIPATHI JITENDRA KUMAR SAXENA ONKAR PRASAD SHUKLA SUBHASH CHANDRA PUVADA KALPANA MURTHY SHALJA BHATTACHARYA KAMAL KAMBOJ ANIL KUMAR DWIVEDI RANJEET KUMAR CHATTERJEE SATYAWAN SINGH VISHWA MOHAN LAL SRIVASTAVA ANIL KUMAR RASTOGI AMIYA PRASAD BHADURI- ALL INDIANS.	
Kind of Application	: Complete	

Application for Patent Number 0048/Del/01 filed on 19<sup>th</sup> Jan. 01.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi - 110 008.

### ( 9 Claims )

A process for the preparation of alkyl/aryl-3-amino-3- glycosylated - propanoates and corresponding propanoic acids of formula 3 of the drawing accompanying this specification wherein R<sub>1</sub> is alkyl group selected from methyl, ethyl, propyl, butyl or aryl group is benzyl; R<sub>2</sub> = methyl, ethyl, hydrogen and NR<sub>1</sub>R<sub>2</sub>=C<sub>1</sub>-C<sub>18</sub> straight or branched chain primary or secondary amines, diamines, cyclic amines and C<sub>1</sub>-C<sub>20</sub> straight or branched chain amino acids, which comprises:



- reacting 3-O-alkyl/aryl-1,2-O-isopropylidene-1,4-pento-furanose-5-ulose of formula 1 of the drawing accompanying this specification wherein alkyl and aryl group is as defined above with trialkyl phosphonoacetate wherein alkyl group is methyl, ethyl or butyl in organic solvent as herein described in presence of base as herein described at a temperature in the range of 10 to 100°C for 1 to 20 hr,
- isolating the intermediate alkyl/aryl [3-(1,2-O- isopropylidene-3-O-substituted (alkyl or aryl alkyl)-1,4-pento- furanos-4-yl) - propanoates of formula 2 of the drawing accompanying this specification wherein R<sub>1</sub> is alkyl, benzyl; R<sub>2</sub> is alkyl by known methods such as herein described,
- reacting the intermediate of formula 2 as obtained in step ii) with amine or amino acid derivatives as herein described in a solvent selected from water, methanol, ethanol, propanol, THF or dioxane optionally in presence of amino base catalyst or phase transfer catalyst as herein described at a temperature in the range of 10 to 150°C for a period in the range of 1 to 48 hrs,
- isolating the ester compound alkyl/aryl- 3-amino- 3-glycosylated propanoates of formula 3 by conventional methods such as herein described,
- hydrolyzing the esters so obtained in step iv) with aqueous alkali as herein described or aqueous ethanolic triethylamine to give corresponding propanoic acid of formula 3.

(Complete Specification 18 Pages Drawings 1 Sheet)



Indian Classification	:	83-VIX	192854
International Classification <sup>4</sup>	:	A 61K 31/15; 31/40; C07C-249/00	
Title	:	<b>"A PROCESS FOR THE PRODUCTION OF VERBENOL".</b>	
Applicant	:	<b>COUNCIL OF SCIENTIFIC &amp; INDUSTRIAL RESEARCH,</b> Rafi Marg, New Delhi-100 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860) & <b>DEPARTMENT OF BIOTECHNOLOGY,</b> Government of India, Ministry of Science & Technology, Block 2, (7 <sup>th</sup> & 8 <sup>th</sup> Floor), CGO Complex, Lodi Road, New Delhi-110 003.	
Inventors	:	<b>RENU AGRAWAL</b> <b>RATI RAO -ALL INDIAN.</b>	
Kind of Application	:	<b>COMPLETE</b>	

Application for Patent Number **412/DEL/2001** filed on **29/03/2001**.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office Delhi Branch,  
New Delhi – 110 008.

(08 Claims)

A process for the production of verbenol of formula of the drawing accompanying the specification which comprises:

- a) growing *Aspergillus niger* parent culture A and Parent culture Guanine less auxotroph B grown separately on potato dextrose broth for 10-18 hours at pH (4.5-6.5) and at a temperature in the range of 25 to 35°C and at 150-200rpm,
- b) isolating protoplast from grown biomass using lysing enzymes as herein described followed by filtration using known methods such as herein described to obtain filtrate,
- c) mixing the above filtrate at 1:1 ratio containing equal number of protoplasts,
- d) incubating the mixture in a prewarmed (30°C) known fusion medium as herein described for 10-20 minutes and serially diluting and plated out on a known minimal medium having sucrose in the range of 20-30g/100ml for the fusants to grow which is further taken on a known complete medium for 48 hours at 30°C till sporulation,
- e) growing spores on a potato dextrose broth at pH ranging between 5.5-7.0 for 18-22 hours at a temperature ranging 28-32°C,
- f) incubating with a substrate alpha pinene of formula of the drawing accompanying the specification and biomass obtained above at a ratio of 1:0.0017 in 0.2 M pH 7.0 phosphate buffer at 30°C at rpm in the range of 120-200 for 4-8 hours, the product is extracted with organic solvent as herein described,
- g) removing the solvent by known method such as herein described to obtain verbenol.

(Complete Specification Pages 20 Drawing 01 Sheet)

Indian Classification.	:	83- XIV	192855
International Classification <sup>4</sup>	:	C 08C-226/06; 526/264	
Title	:	<b>“ A PROCESS FOR THE PREPARATION OF PURIFIED LECITHIN FROM CRUDE RICE BRAN OIL”.</b>	
Applicant	:	<b>COUNCIL OF SCIENTIFIC &amp; INDUSTRIAL RESEARCH</b> , Rafi Marg, New Delhi-100 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).	
Inventors	:	<b>AMBALE GUNDAPPA GOPALA KRISHNA-INDIAN</b>	
Kind of Application	:	<b>COMPLETE</b>	

Application for Patent Number 414/DEL/2001 filed on 29/03/2001.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office Delhi Branch,  
New Delhi - 110 008.

(04 Claims)

A process for the preparation of purified lecithin from crude rice bran oil which comprises:

- a) adding degumming agent such as water at 3.5-5% in the crude rice bran oil,
- b) stirring the mixture for 5-20 minutes at 20-35°C,
- c) heating the mixture to 80-105°C under controlled stirring speed of 150-350 rpm for 10-30 minutes,
- d) separating the hydrated gum by centrifugation at 1500-300 rpm for 10-30 minutes,
- e) drying separated gum at 80-105°C for 6-8 hrs under atmospheric pressure, purifying the dry gum by a ketonic solvent such as acetone to obtain the desired purified product.

(Complete Specification Pages 09 Drawing NIL Sheet)

Indian Classification	:-	39	192856
International Classification <sup>7</sup>	:-	C 03C 8/10	
Title	:-	"A PROCESS FOR THE PREPERATION OF AN IMPROVED COATING USEFUL FOR COATING THE SURFACES OF STAINLESS STEEL AND SUPER ALLOYS"	
Applicant	:-	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001, India, an Indian registered body incorporated under the Registration of Societies Act.	
Inventors	:-	AMITAVA - MAJUMDAR - INDIAN SUNIL KUMAR DAS - INDIAN	
Kind of Application	:-	COMPLETE	
Application for Patent Number	787/del/1997	filed on	27/3/97

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi Branch - 110 008.

( Claims 4 )

\* A process for the preparation of an improved coating useful for coating the surfaces of stainless steel and super alloys, which comprises, - (i) preparing glass frits by method such as herein described consisting ingredients such as herein described, - (ii) mixing thoroughly 98-100% the said fritted glass, 4-5% binder such as herein described, 35-40% water, 0.03-0.05% conventional mill additives such as herein described and 3-4% Y-PSZ, consisting of  $ZrO_2$  and  $Y_2O_3$  and prepared by method such as herein described to obtain the mixture, - (iii) milling the said mixture to -250 to -300 mesh size (B.S.sieve) to get the said coating.

Complete Specification	No of Pages	14	Drawings Sheets	NIL
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Indian Classification	:	32 F	192857
International Classification <sup>7</sup>	:	C07C 45/46; C07C 49/78	
Title	:	"A PROCESS FOR THE PREPARATION OF 4'-ISOBUTYLACETOPHENONE (4-IBAP)."	
Applicant	:	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001, INDIA, an Indian body incorporated under the Registration of Societies Act (XXI of 1860).	
Inventors	:	BOYAPATI MANORANJAN CHOUDARY MUTYALA SATEESH MANNEPALLI LAKSHMI KANTAM KALLURI VENKATA SRI RANGANATH KONDAPURAM VIJAYA RAGHAVAN - ALL INDIANS	
Kind of Application	:	Complete	

Application for Patent Number 371/Del/2000 filed on 31<sup>st</sup> March 2000.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi - 110 008.

**( 4 Claims )**

A process for the preparation of 4'-isobutylacetophenone which comprises reacting isobutyl benzene with acylating agent in the presence of a metal ion exchange zeolite beta catalyst, at a temperature ranges between 60 to 165°C for 2-12 hours, separating the catalyst by filtration from the reaction mixture and recovering 4-isobutylacetophenone by conventional method wherein the zeolite beta catalyst is selected from nano crystalline, microcrystalline and metal exchanged zeolite beta, the particle size of nanocrystalline and microcrystalline zeolite beta are 10 nm to 100 nm and 1 µm to 50 µm.

(Complete Specification 13 Pages Drawings Nil Sheet)

Indian Classification	:-	32 F2(b)	192858
International Classification <sup>7</sup>	:-	A 61K 31/44	
Title	:-	"A PROCESS FOR THE PREPARATION OF 4-ARYL-2,6-DIMETHYL-3-CARBOETHOXY-5- CARBOMETHOXY-1,4-DIHYDROPYRIDINES USEFUL AS THERAPEUTIC AGENTS".	
Applicant	:-	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi - 110 001.	
Inventors	:-	NEERAJ - MAHINOROO - INDIAN RAVI KANT KHAJURIA - INDIAN VIJAY KUMAR KAPOOR - INDIAN KANAYA LAL DHAR - INDIAN	
Kind of Application	:-	COMPLETE	
Application for Patent Number	153/del/2000	filed on	25/02/2000

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office , New Delhi Branch - 110 008.

( Claims 6.)

A process for the preparation of 4-aryl-2,6-dimethyl-3-carboethoxy-5-carbomethoxy-1,4-dihydropyridines of formula I wherein  $R_1$  is H,  $\text{NO}_2$ , Cl, OAc, OH,  $R_2$  is H,  $\text{NO}_2$ , Cl,  $-\text{O}-\text{CH}_2-\text{O}-$ , OMe, OAc, OEt, OH,  $R_3$  is H,  $\text{NO}_2$ , Cl,  $\text{N}(\text{Me})_2$ ,  $-\text{O}-\text{CH}_2-\text{O}-$ , OMe, OAc, OH,  $R_4$  is H, OMe, OAc, OH and  $R_5$  is H, Cl, I, useful as therapeutic agents which comprises:

- i. preparing a equimolar mixture of ethyl acetoacetate and methyl acetoacetate by known methods,
- ii. preparing a mixture of aromatic aldehyde of the kind as herein described, premixture of ethyl acetoacetate and methyl acetoacetate and a source of ammonia by known method.
- iii. adding an adsorbent such as herein described to the above prepared mixture till the adsorbent becomes free flowing,
- iv. Subjecting the above said mixture under microwave irradiations at 250 to 400 W for 30 sec to ten minutes,
- v. cooling the above reaction mixture to room temperature and recovering the compound of formula I wherein  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$  &  $R_5$  has the same meaning as above by conventional methods, hydrolysing the ester group in aromatic portion of compound by conventional hydrolysing agent to give corresponding hydroxy compounds of 4-aryl-2,6-dimethyl pyridines.

Indian Classification	:-	<b>192859</b>
International Classification <sup>7</sup>	:-	F 27D 1/16
Title	:-	"An improved semi-dry gunning mix for repairing the eroded refractory linings of steel teeming ladles and a method of preparing the same".
Applicant	:-	Steel Authority of India Limited, Research & Development Centre for Iron & Steel, A govt. of India Enterprise, Having its registered office at Ispat Bhawan, Lodi Road, New Delhi - 3.
Inventors	:-	PURIMETLA - CHINTAIAH - INDIAN ANUP KUMAR BHATTACHARYA - INDIAN SUSANTA - SARKAR - INDIAN AJAY KUMAR DASGUPTA - INDIAN
Kind of Application	:-	COMPLETE
Application for Patent Number	576/del/1996	filed on 19/03/1996

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi Branch - 110 008.

( Claims 5 )

An improved semi-dry gunning mix for repairing eroded refractory linings of steel teeming ladles, characterised in that the composition (by weight%) of the said mix is: SiO<sub>2</sub>-7 to 9, Al<sub>2</sub>O<sub>3</sub>-70 to 75, Fe<sub>2</sub>O<sub>3</sub>-5 to 7, CaO - 2 to 4, Na<sub>2</sub>O+K<sub>2</sub>O-1 to 3 and impurities (as various oxides) -2 to 15; and that the granulometry of the ingredients-calcined bauxite, plastic clay, bentonite, sodium hexameta phosphate of commercial grade and aluminium sulphate - used is (by weight%) of size: above 1.0 mm-40.0, between 0.5 and 1.0 mm - 10.0, between 0.15 and 0.5 mm -15.0 and below 0.15 mm -35.0, the improved gunning properties of the mix being produced by the synergistic effect of the ingredients.

Complete Specification	No of Pages	13	Drawings Sheets	nil
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Indian Classification	:-	33 A	192860
International Classification <sup>7</sup>	:-	B22D 2/00	
Title	:-	"An Improved Method of cast Iron Ingot Moulds."	
Applicant	:-	Steel Authority of India Limited., Research & Development Centre for Iron & Steel, A Govt. of India Enterprises, having its registered office at Ispat Bhawan, Lodi Road, New Delhi-11003.	
Inventors	:-	BRIJ KUMAR SHRIVASTAV -INDIA, DIBYENDU SUNDAR BASU -INDIA, ANANTA LAL KUNDU -INDIA.	
Kind of Application	:-	COMPLETE	
Application for Patent Number	66/Del/1996	filed on	11/01/1996

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office ,  
New Delhi Branch - 110 008.

( Claims 5 )

An improved method of producing cast iron ingot moulds, comprising the steps:(a) a melting a charge of basic pig iron of low sulphur and phosphorus content, iron scrap and runners or other iron bearing materials like sponge iron, hot briquetted iron, blast furnace molten iron which is allowed to stand in a holding unit for 1 to 5 hours for elimination of excess carbon therefrom, in cupola or air furnace or induction melting unit; (b) pouring the molten iron at a temperature of 1250 - 1300°C into a ladle; (c) skimming off slag from the surface of molten iron in the ladle; (d) casting the molten iron in moulds made of materials like dry sand, synthetic-bonded sand/carbon dioxide, cement-bonded sand; (e) allowing the cast in the mould to cool in air to a temperature of at least 100 -150°C; (f) stripping out the cast from the mould; and (g) fettling and cleaning the cast; characterised in that titanium in the form of ferro-titanium or in other form is added to the molten iron in step (a) or in step (b) or in both steps (a) and (b) to the extent of 0.05 - 0.12% by weight and the carbon equivalent level in the composition of molten iron in step (a) is maintained at 4.2 minimum, for preventing formation of long and stubby graphite flakes in the iron ingots cast, during cooling thereof in the moulds.

Complete Specification	No of Pages	6	Drawings Sheets	0
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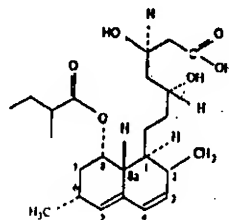
Indian Classification	:	32 F <sub>3</sub> (d) 55 E <sub>4</sub>	192861
International Classification <sup>7</sup>	:	A61K 31/00	
Title	:	"AN IMPROVED PROCESS FOR THE ISOLATION OF LOVASTATIN."	
Applicant	:	RANBAXY LABORATORIES LTD. a Company incorporated under the Companies Act, 1956 of 19, Nehru Place, New Delhi – 110019. INDIA.	
Inventors	:	PARVEEN KUMAR - INDIAN SRINIVASAN RAMAN – INDIAN PARDEEP NARULA – INDIAN.	
Kind of Application	:	Complete	

Application for Patent Number 630/Del/2000 filed on 30<sup>th</sup> June 2000.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi – 110 008.

**( 7 Claims )**

A process for isolation of lovastatin from the fermentation broth optionally comprising of microorganism belonging to the genus *Aspergillus* capable of producing lovastatin containing an aqueous medium as herein described which comprises of effecting the lactonization of mevinolinic acid of formula II



by adjusting the pH in acidic range of the said fermentation broth at a temperature of 10-80°C and recovering lovastatin having purity above 95% from the said aqueous medium by solvent extraction and crystallization.

(Complete Specification 7 Pages Drawings 2 Sheets)



Indian Classification	:	55E4	192862
International Classification <sup>4</sup>	:	A61K-31/00	
Title	:	<b>"A PROCESS FOR THE PREPARATION OF 3-ETHOXY-4-ETHOXYCARBONYL PHENYL ACETIC ACID".</b>	
Applicant	:	<b>RANBAXY LABORATORIES LIMITED, a</b> Company incorporated under the Companies Act, 1956 o f19, Nehru Place, New Delhi-110 019, INDIA.	
Inventors	:	<b>MOHAMMAD SALMAN</b> <b>J. SURESH BABU</b> <b>PURNA CHANDRA RAY</b> <b>SUJAY BISWAS</b> <b>NARESH KUMAR-ALL INDIAN.</b>	

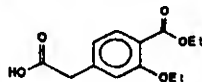
Kind of Application COMPLETE

Application for Patent Number 1483/DEL/1999 filed on 16/11/1999

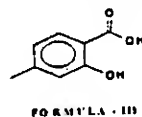
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Delhi Branch, New Delhi – 110 008.

(11 Claims)

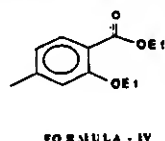
A process for the preparation of 3-ethoxy-4-(ethoxycarbonyl)phenyl acetic acid of Formula I,



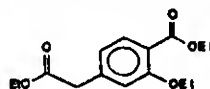
as shown in the accompanied drawings, comprising reacting 4-methylsalicylic acid of Formula III,



as shown in the accompanied drawings, with ethylbromide in a dipolar aprotic solvent in the presence of an inorganic base at a temperature within the range of ambient to 100°C to afford ethyl-2-ethoxy-4-methyl benzoate of Formula IV



as shown in the accompanied drawings, which on reaction with lithium diisopropylamide (LDA) of Formula VII,



as shown in the accompanied drawings, preferably in the presence of dipolar aprotic co-solvent, and decomposing the carbanion with carbon dioxide till complete decolorization, followed by decomposition in water and subsequently recovering the product of Formula I, as shown in the accompanied drawings in a manner as described herein.

(Complete Specification Pages 08 Drawing 08 Sheets)

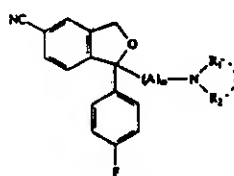
Indian Classification	:	55 E4	192863
International Classification <sup>7</sup>	:	C07D 307/77	
Title	:	"PROCESS FOR THE SYNTHESIS OF NOVEL ISOBENZOFURANS."	
Applicant	:	RANBAXY LABORATORIES LTD. a Company incorporated under the Companies Act, 1956 of 19, Nehru Place, New Delhi - 110019. INDIA.	
Inventors	:	YATENDRA KUMAR - INDIAN RAM CHANDER ARYAN - INDIAN KUMAR HARI BHUSHAN - INDIAN.	
Kind of Application	:	Complete	

Application for Patent Number 1144/Del/2001 filed on 13<sup>th</sup> Nov. 2001.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi - 110 008.

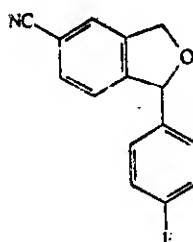
( 17 Claims )

A process for the preparation of novel isobenzofurans of general formula VI



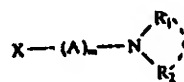
FORMULA VI

a pharmaceutically acceptable salt thereof, wherein  $R_1$  and  $R_2$  together with nitrogen atom from a five or six membered ring as represented by circular dotted line optionally substituted with another heteroatom selected from N, S or O and A is alkyl group and m is an integer from 2 to 6 and defines the number of carbons in the group A which comprises reacting a phthalane of structural formula VII



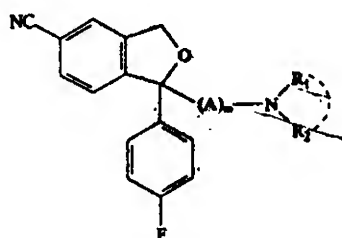
FORMULA VII

with a halide chain of structural formula VIII



FORMULA VIII

wherein X is a leaving group and  $R_1$ ,  $R_2$ , A and m have the cited meanings as defined above in an organic solvent and a strong base as described herein at a temperature of about 0 to 100°C followed by aqueous work up and isolating the novel isobenzofuran derivatives of structural formula VI



FORMULA VI

after suitable purification.

(Complete Specification 12 Pages Drawings 12 Sheets)

Indian Classification	:	55 E4	192864
International Classification <sup>7</sup>	:	A61K 9/24	
Title	:	"A PROCESS FOR THE PREPARATION OF CONTROLLED RELEASE FORMULATIONS OF OFLOXACIN."	
Applicant	:	RANBAXY LABORATORIES LTD. a Company incorporated under the Companies Act, 1956 of 19, Nehru Place, New Delhi – 110019. INDIA.	
Inventors	:	NARAYANAN BADRI VISWANATHAN- INDIAN GOUR MUKHERJI – INDIAN ASHOK RAMPAL – INDIAN.	
Kind of Application	:	Complete	

Application for Patent Number 856/Del/2000 filed on 22<sup>nd</sup> Sept. 2000.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi – 110 008.

**( 19 Claims )**

A process for the preparation of an oral controlled release formulation of ofloxacin comprising:

- a. mixing 30-90% w/w of ofloxacin, 2-25% w/w of a polymer matrix comprising hydrophilic polymer selected from the group consisting of a cellulose ether, an acrylic polymer and a natural gum and at least one carboxyvinylpolymer as herein described, said carboxyvinylpolymer constitutes at least 30% w/w of the total weight of said polymer matrix, 5-50% w/w of an alkaline agent as herein described, said alkaline agent is used in dry form or as wet granules, a lubricant, a binder, swelling agent (10-20% w/w), optional acid source, as herein described, to obtain a blend,
- b. compacting blend of step (a) to obtain granules, and
- c. optionally mixing the granules of step (b), with at least one lubricant followed by compression to tablets or filling into capsules, to obtain said oral controlled release formulation, as herein described.

(Complete Specification 19 Pages Drawings Nil Sheets)

Indian Classification :- 36 A 192865

International Classification<sup>7</sup> :- F04 D 17/08

Title :- "An improved Impeller for Centrifugal Compressor."

Applicant :- Bharat Heavy Electricals Ltd. BHEL HOUSE, Siri Fort, New Delhi 110 049, India.

Inventors :- KORAPATY - HIMAKAR - INDIA.

Kind of Application :- PROVISIONAL/COMPLETE

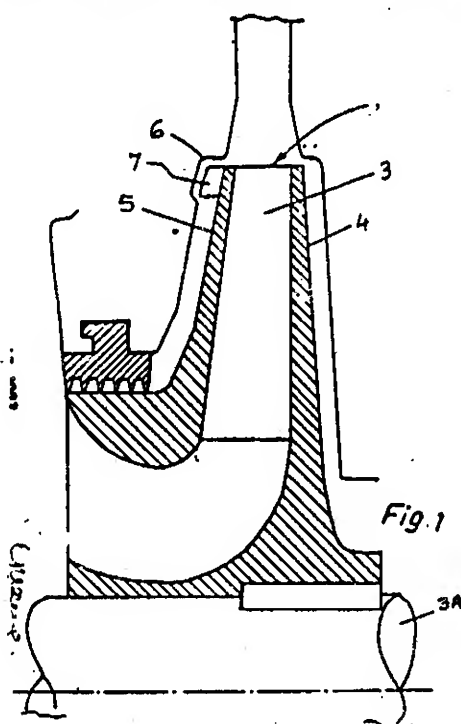
Application for Patent Number 114/Del/1996 filed on 17/01/1996

Complete left after Provisional Specification filed on : 17/01/1996 Complete filed on : 17/03/1997

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi Branch - 110 008.

( Claims 5 )

An improved impeller for centrifugal compressor to prevent leakage of fluid, comprising a plurality of vanes (3) in between back and front shroudes (4,5); and a casing wall (6), said impeller being secured to a rotatable shaft of said compressor and thereon to a motor, characterized in that a plurality of barrier vanes (7) being formed on an outer circumference of said front shroudes (5) extending into a clearance gap between said front shroud (5) and said casing wall (6) of said impeller.



Provisional Specification

No of Pages

5

Drawings Sheets

Complete Specification

No of Pages

7

Drawings Sheets

Indian Classification	:-	63 H	192866
International Classification <sup>7</sup>	:-	A 611N 2/00	
Title	:-	"AC-DC ELECTRO-MAGNET-DEVICE AS CONSTITUTIONAL REMEDY FOR PROMOTION OF HEALTH"	
Applicant	:-	Ambika Prasad and Trinetra, C/o Shri G.S. Chaman, A-4/E DDA Flats Munirka, New Delhi - 67.	
Inventors	:-	AMBIKA - PRASAD - INDIAN TRINETRA - INDIAN	
Kind of Application	:-	COMPLETE	
Application for Patent Number		730/del/1996	filed on 03/04/1996

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi Branch - 110 008.

( Claims 4 )

A device for healing by magnetism derived by simultaneous flow of AC and DC electricity where in the AC (on top side) and DC coils are vertically placed around insulated brass tube to be subsequently wrapped over soft iron tube as shown in the accompanied drawing, generating a mixed AC-DC magnetism (within the iron tube) radiating a mild pulsating flux of 300 to 400 gauss units which creates a magnetic field to negotiate hanging (disconnected) pole-plates for tactual application.

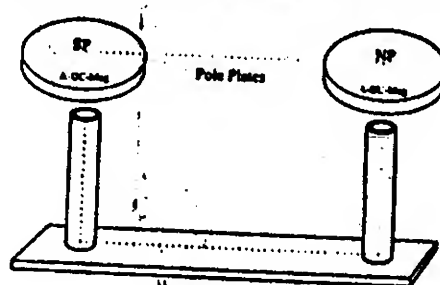


Figure - 1

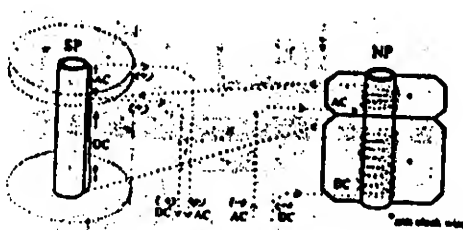


Figure - 2

Indian Classification :- 37 B 192867

International Classification<sup>7</sup> :- B 04 B 009/06

Title :- "A FLUID-POWERED CENTRIFUGAL CLEANER DEVICE"

Applicant :- FIL TERWERK MANN + HUMMEL GMBH, At Hindenburgstrasse 45, 71638, Ludwigsburg, Germany.

Inventors :- RONALD JAMES PURVEY - ENGLAND.

Kind of Application :- COMPLETE/CONVENTION

Application for Patent Number 195/del/1996 filed on 30/01/1996

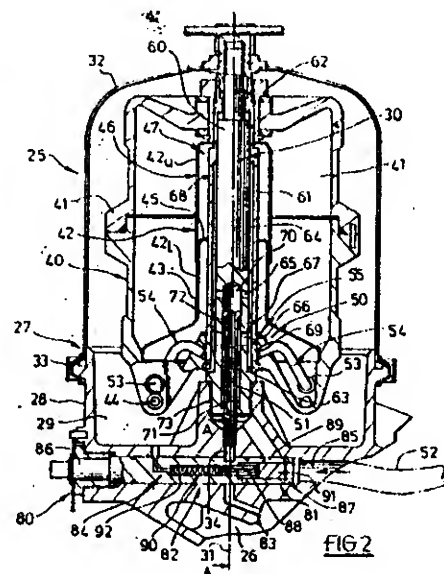
Convention Application No. 9502055.8/UK/02/02/1995.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi Branch - 110 008.

( Claims 05 )

A fluid-powered centrifugal cleaner (25) for a supply of liquid containing solid contaminants, comprising a housing (27) having

- (i) a base (28) defining a discharge region (26,29) at ambient pressure,
- (ii) spindle means (30) extending from the base along an operably vertical axis (31) through the housing and containing an axially extending main inlet passage (34) to receive said contaminated liquid,
- (iii) a rotor (40), supported on the spindle means for rotation thereabout, comprising an annular contaminant chamber (41) in communication with the discharge region and the main inlet passage,
- (iv) fluid operated rotor drive means (50), comprising a first part (51) fixed with respect to the housing to receive therein a consistent supply of drive fluid at super-ambient pressure and a second part (53, 54,55) coupled to the rotor in respect of rotation about the axis, operable to cause flow of drive fluid, separate from said liquid, to said discharge region by way of the first and second parts to cause rotation of the rotor at at least minimum speed required to effect centrifugal separation of solid contaminants from said liquid passing through the contaminant container, and characterized by
- (v) control valve means (80) operable to permit removal of the rotor (40) by closing off supply of contaminated liquid to the rotor contemporaneously with supply of said contaminated liquid to and through the housing.



Complete specification No of Pages 20

Drawings Sheets 02.





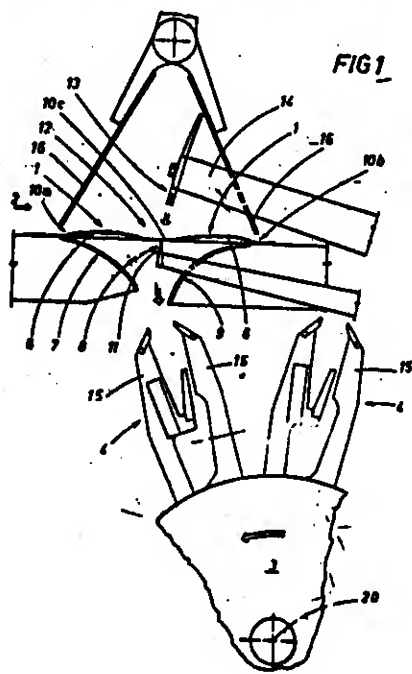
Indian Classification	:-	52 B	192869
International Classification <sup>7</sup>	:-	B65B 61/24	
Title	:-	"A method of manufacturing a filter bag by pleating and folding an elongatedly shaped tubular blank of filter paper."	
Applicant	:-	I.M.A. Industria Macchine Automatiche S.P.A., an Italian company, of Via Emilia, 428-442, 40064 Ozzano Emilia (Bologna), Italy.	
Inventors	:-	ANDREA - ROMAGNOLI -ITALY.	
Kind of Application	:-	COMPLETE/CONVENTION	
Application for Patent Number	749/Del/1996	filed on	04/04/1996

Convention No. BO95A00014/Italy/04/04/1995

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003) Patent Office, New Delhi  
Branch - 110 008.

( Claims 6 )

A method of manufacturing a filter bag by pleating and folding an elongatedly shaped tubular blank (1) of filter paper containing measured and separate quantities of an infusible substance, so as to obtain a filter bag (5) with two envelopes (6), comprising the steps of: conveying tubular blanks (1) of filter paper singly and in succession along a feed direction (2) extending tangential to a rotatable wheel (3) equipped with radial grippers (4) affording relative arms (15) by which each filter bag (5) is taken up, compacted and conveyed further; taking up a tubular blank (1) in a position above at least three bearing elements (7, 8, 9) ordered along the feed direction (2), of which two (7, 9) are stationary, shaped in such a way as to converge toward the wheel (3) and offered to opposite ends (10a, 10b) of the tubular blank, whilst the third (8) is capable of movement transversely to the feed direction (2); forming a pleat (12) in an intermediate portion (10c) of the tubular blank (1); folding the tubular blank (1) double in such a way as to draw the relative envelopes (2) together, by inducing a movement that commences in the position at which the tubular blank (1) is taken up and terminates at a position in which the tubular in which the tubular blank (1), guided by the stationary bearing elements (7, 9), comes to rest between the arms (15) of the gripper (4) with the two ends (10a, 10b) close together; and comprises effecting between the steps of forming the pleat (12) and folding the tubular blank (1), in which the ends (10a, 10b) of the blank are pinched by the action of respective movable pressure elements (16) operating in conjunction with the stationary bearing elements (7, 9) so as to prevent the contents of the envelopes (6) from escaping during the movement of the bag (5) toward the wheel (3).



Complete Specification No of Pages 12

Drawings Sheets 2

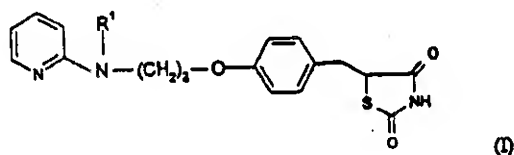
Indian Classification	:	32 F2; 55 E4	192870
International Classification <sup>7</sup>	:	C07D 275/00; C07D 277/00	
Title	:	"A PROCESS FOR PREPARING 5-[4-[2-(N-METHYL-N-(2-PYRIDYL) AMINO)ETHOXY]BENZYL]-2,4-THIAZOLIDINEDIONE, OR A TAUTOMERIC FORM THEREOF OR A SALT THEREOF, OR A SOLVATE THEREOF."	
Applicant	:	SMITHKLINE BEECHAM P.L.C., a British company, of New Horizons Court, Brentford, Middlesex TW8 9EP, England.	
Inventors	:	ROBERT GORDON GILES - BRITISH NORMAN JOHN LEWIS - BRITISH JOHN KIRBY QUICK - BRITISH	
Kind of Application	:	Convention-Complete	

Application for Patent Number 3258/Del/ 98 filed on 3<sup>rd</sup> NOV. 98.  
Convention date 4.11.1997/ 9723295.3/ U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 2003)  
Patent Office Branch, New Delhi - 110 008.

( 7 Claims )

A process for preparing 5-[4-[2-(N-methyl-N-(2-pyridyl)amino)ethoxy]benzyl]-2,4-thiazolidinedione (I)



or a tautomeric form thereof, a solvate thereof, or a salt thereof; which process comprises catalytically reducing 5-[4-[2-(N-methyl-N-(2-pyridyl)amino) ethoxy]benzylidene]-2,4-thiazolidinedione, its tautomeric form, a solvate thereof or a pharmaceutically acceptable salt thereof, with a catalyst such as herein described; characterised in that the reduction reaction is carried out using a hydrogen pressure above 20psi and up to 1500 psi; and thereafter if required forming in a conventional manner a tautomeric form and/or solvate thereof and/or a pharmaceutically acceptable salt thereof of the compound of formula (I).

(Complete Specification 8 Pages ; Drawings Nil Sheets)

## Cessation of Patents

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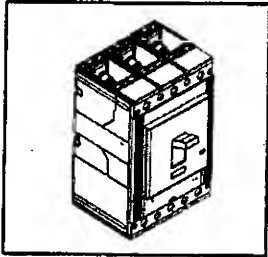
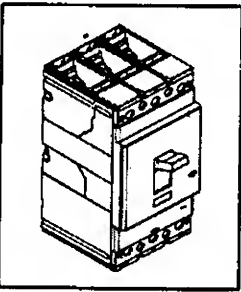


PATENTS SEALED ON 23-04-2004/KOLKATA

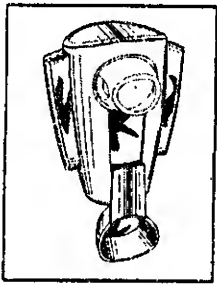
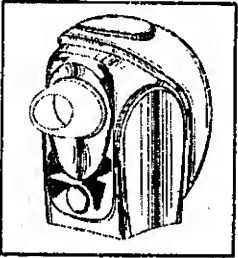

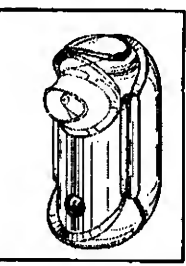
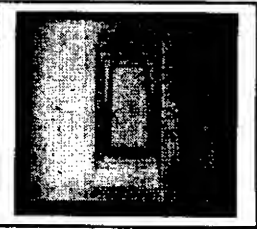
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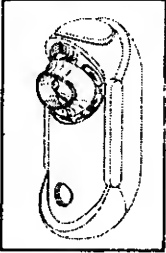



KOL-06.**REGISTRATION OF DESIGNS**

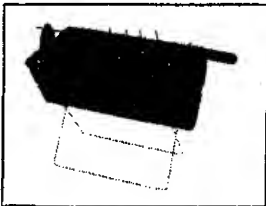

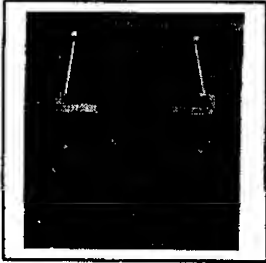

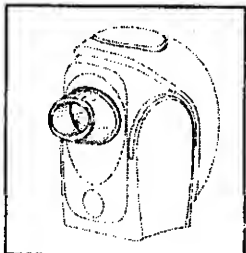
The following designs have been registered. They are open for public inspection from the date of registration. (Colour combination if any, is not shown in the representation)

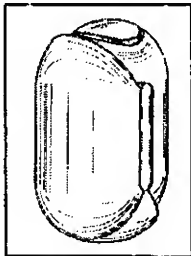
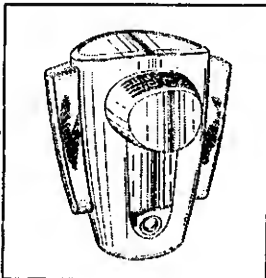
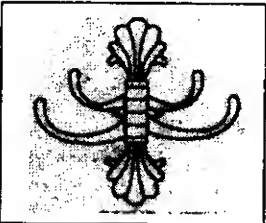
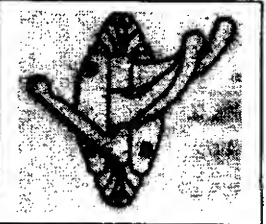
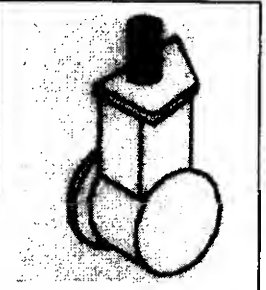
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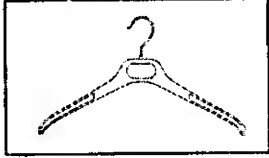

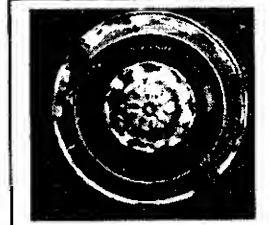

Class	13-03	No.192883 ABB SERVICE S.R.L., OF VIA VITTOR PISANI, 16-I-20124 MILANO, ITALY, AN ITALIAN COMPANY. "ELECTRICAL CIRCUIT BREAKER" 20.02.2003 (RECIPROCITY ITALY)	
Class	13-03	No.192880. ABB SERVICE S.R.L., OF VIA VITTOR PISANI, 16-I-20124 MILANO, ITALY, AN ITALIAN COMPANY. "ELECTRICAL CIRCUIT BREAKER" 20.02.2003 (RECIPROCITY ITALY)	
Class	09-01	No.191417. M/S. MAYAR INDIA LIMITED MAYAR TOWERS, 12, YAMUNA MARG, CIVIL LINES, DELHI-110054 (INDIA) "CONTAINER" 04.03.2003	
Class	15-06	No.192285. CHIDAMBARAM ASHOK KUMAR OF J-18, S-BLOCK, M. I. D. C. BHOSARI, PUNE-411026, MAHARASHTRA, INDIA, AN INDIAN CITIZEN "COMPUTERISED AUTOMATIC WEAVING JACQUARD CARD PUNCHING MACHINE" 06.06.2003	

Class	24-04	No.192368. GLAXO GROUP LIMITED, GLAXO WELLCOME HOUSE, BARKELEY AVENUE, GREENFORD, MIDDLESEX, UB6 0NN, U.K., A BRITISH COMPANY. "ACTUATOR FOR AN ORAL INHALER" 18.12.2002 (RECIPROCITY, U.S.A.)	
Class	24-04	No.192367. GLAXO GROUP LIMITED, GLAXO WELLCOME HOUSE, BARKELEY AVENUE, GREENFORD, MIDDLESEX, UB6 0NN, U.K., A BRITISH COMPANY. "ACTUATOR FOR AN ORAL INHALER" 18.12.2002 (RECIPROCITY, U.S.A.)	
Class	24-04	No.192366. GLAXO GROUP LIMITED, GLAXO WELLCOME HOUSE, BARKELEY AVENUE, GREENFORD, MIDDLESEX, UB6 0NN, U.K., A BRITISH COMPANY. "ACTUATOR FOR AN ORAL INHALER" 18.12.2002 (RECIPROCITY, U.S.A.)	
Class	24-04	No.192365. GLAXO GROUP LIMITED, GLAXO WELLCOME HOUSE, BARKELEY AVENUE, GREENFORD, MIDDLESEX, UB6 0NN, U.K., A BRITISH COMPANY. "ACTUATOR FOR AN ORAL INHALER" 18.12.2002 (RECIPROCITY, U.S.A.)	
Class	13-03	No.192685. MR. BHARAT SOLANKI, SOLANKI INDUSTRIES., 22/180, MOTILAL NAGAR NO. 1, OPP: BEST COLONY, GOREGAON (W), MUMBAI-400104, MAHARASHTRA, INDIA. "ELECTRIC SWITCH" 28.07.2003	

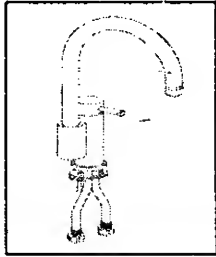



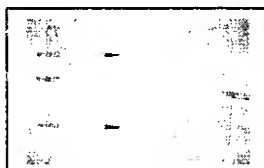
Class	11-01	No.192519. TARA JEWELS EXPORT LIMITED, AT G-44, GEMS JEWELLERY COMPLEX NO.1, SEEPZ. ANDHERI (EAST), MUMBAI:-400 096, MAHARASHTRA, INDIA, "PENDANT" 04.07.2003	
Class	24-04	No.192363. GLAXO GROUP LIMITED, GLAXO WELLCOME HOUSE, BARKELEY AVENUE, GREENFORD, MIDDLESEX, UB6 0NN, U.K., A BRITISH COMPANY. "MOUTHPIECE OF AN ORAL INHALER" 18.12.2002 (RECIPROCITY, U.S.A.)	
Class	24-04	No.192373. GLAXO GROUP LIMITED, GLAXO WELLCOME HOUSE, BARKELEY AVENUE, GREENFORD, MIDDLESEX, UB6 0NN, U.K., A BRITISH COMPANY. "ORAL INHALER" 18.12.2002 (RECIPROCITY, U.S.A.)	
Class	07-01	No.187105. MUKESH GOEL (INDIAN NATIONAL), PROPRIETOR OF KRITI CREATIONS, 63, B KHAN MARKET, NEW DELHI: -110 003. "CAMPHOR CONTAINING DEVICE" 25.10.2001	
Class	05-05	No.192856. GOLDTEX FURNISHING INDUSTRIES, 78/1197, TRI NAGAR, DELHI-110035, INDIA, "TEXTILE FABRIC" 13.08.2003	



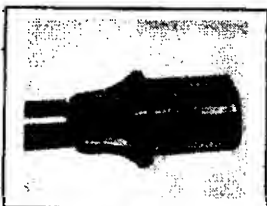


Class	31-00	No.191850. SKYLINE ENTERPRISES, OF C-2/10, MAYAPURI INDUSTRIAL AREA, PHASE II, NEW DELHI:-110 064, INDIA. "BAR-BE QUE" 11.04.2003	
Class	08-06	No.192967. ASHIT JASVANTRAI DAGLI, SARAL-B, 601, BEHIND VANSHREE BUNGLOW, MARVE ROAD, MALAD WEST, MUMBAI:- 400 064, MAHARASHTRA, INDIA. "JAR HANDLE" 20.08.2003	
Class	23-02	No.192845. SAJJAN RAO, 7TH CROSS VIDYANAGAR, SHIMOGA-577 203, KARNATAKA, INDIA. (INDIAN). "TOILET WASTE COLLECTION & DISPOSAL UNIT FOR RAILWAYS" 13.08.2003	
Class	08-99	No.193384. DHINGRA ADVERTISERS OF I-205, NARAJNA VIHAR, D.D.A. FLATS, NEW DELHI-110028, INDIA, "RACK" 06.10.2003	
Class	24-04	No.192364. GLAXO GROUP LIMITED, GLAXO WELLCOME HOUSE, BARKELEY AVENUE, GREENFORD, MIDDLESEX, UB6 0NN, U.K., A BRITISH COMPANY. "MOUTHPIECE OF AN ORAL INHALER" 18.12.2002 (RECIPROCITY, U.S.A.)	



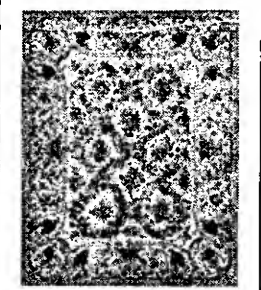
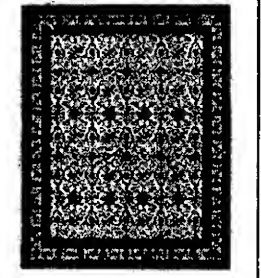
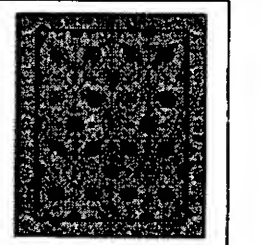
Class	24-04	No.192372. GLAXO GROUP LIMITED, GLAXO WELLCOME HOUSE, BARKELEY AVENUE, GREENFORD, MIDDLESEX, UB6 0NN, U.K., A BRITISH COMPANY. "ORAL INHALER" 18.12.2002 (RECIPROCITY, U.S.A.)	
Class	24-04	No.192371. GLAXO GROUP LIMITED, GLAXO WELLCOME HOUSE, BARKELEY AVENUE, GREENFORD, MIDDLESEX, UB6 0NN, U.K., A BRITISH COMPANY. "ORAL INHALER" 18.12.2002 (RECIPROCITY, U.S.A.)	
Class	02-07	No.193546. VARDHMAN VALLEY (INDIA) PVT. LTD., A-10, LOUIS PALACE, SHANKAR LANE, MALAD(W), MUMBAI: -400 064, MAHARASHTRA, (INDIA), INDIAN NATIONALS. "HOOK FOR HANGING" 17.10.2003	
Class	02-07	No.193545. VARDHMAN VALLEY (INDIA) PVT. LTD., A-10, LOUIS PALACE, SHANKAR LANE, MALAD(W), MUMBAI: -400 064, MAHARASHTRA, (INDIA), INDIAN NATIONALS. "HOOK FOR HANGING" 17.10.2003	
Class	02-07	No.193544. VARDHMAN VALLEY (INDIA) PVT. LTD., A-10, LOUIS PALACE, SHANKAR LANE, MALAD(W), MUMBAI: -400 064, MAHARASHTRA, (INDIA), INDIAN NATIONALS. "SHELF BUTTON" 17.10.2003	




Class	26-04	No.193681. PHOENIX LAMPS LIMITED, OF 59-A, NOIDA EXPORT PROCESSING ZONE, NOIDA, PHASE-II, DT-GAUTAM BUDH NAGAR, U.P.-201305, AN INDIAN COMPANY. "ELECTRIC LAMP" 05.11.2003	
Class	06-08	No.193102. MAINETTI (UK) LIMITED, A COMPANY INCORPORATED IN SCOTLAND, OF ANNFIELD ESTATE, OXNAM ROAD, JEDBURGH, ROXBURGHSHIRE, SCOT- LAND TD8 6NN, UK. "GARMENT HANGER" 05.03.2003 (RECIPROCITY, U.K.)	
Class	09-01	No.194072. ESSAR INC., OF "SUBANU", NO.10, Sirkali Cross Road, Senthangudi, Mayiladuturai 609 001, T.N., India, "CONTAINER" 23.12.2003	
Class	03-04	No.193485. SURAJ INDUSTRIES, 22, STRAND ROAD, 1 <sup>ST</sup> FLOOR, KOLKATA:- 700 001, WEST BENGAL, INDIA, "BOTTOM CAP" (USED IN ELECTRIC FAN) 17.10.2003	
Class	03-04	No.193486. SURAJ INDUSTRIES, 22, STRAND ROAD, 1 <sup>ST</sup> FLOOR, KOLKATA:- 700 001, WEST BENGAL, INDIA, "CANOPY" (USED IN ELECTRIC FAN) 17.10.2003	



Class	23-01	No.193195. AMERICAN STANDARD INTERNATIONAL INC, 15 WEST 54 <sup>TH</sup> STREET, NEW YORK, NEW YORK 10019, U.S.A., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE. "SPOUT" 03.04.2003 (RECIPROCITY, SOUTH KOREA)	
Class	06-03	No.192834. IRFAN HAKIM, 232, 23 <sup>RD</sup> FLOOR, KALPATARU HEIGHTS, DR. NAIR ROAD, MUMBAI CENTRAL, MUMBAI: -400 011, MAHARASHTRA, INDIA, INDIAN NATIONAL. "STOOL" 08.08.2003	
Class	24-99	No.194157. MITRA INDUSTRIES LIMITED, A-181, OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI: -110 020. "CONNECTOR CAP" 21.01.2004	
Class	24-99	No.194154. MITRA INDUSTRIES LIMITED, A-181, OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI: -110 020. "TUBE CLIP" 21.01.2004	
Class	24-99	No.194156. MITRA INDUSTRIES LIMITED, A-181, OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI: -110 020. "TRI CHOICE- CONTINUOUS AMBULATORY PERITONEAL DIALYSIS BAG" 21.01.2004	

Class	24-99	No.194153. MITRA INDUSTRIES LIMITED, A-181, OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI: -110 020. "BRAKE AWAY VALVE" 21.01.2004	
Class	24-99	No.194152. MITRA INDUSTRIES LIMITED, A-181, OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI: -110 020. "Y-CONNECTOR" 21.01.2004	
Class	24-99	No.194151. MITRA INDUSTRIES LIMITED, A-181, OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI: -110 020. "-CONNECTOR FOR TRANSFER SET" 21.01.2004	
Class	24-99	No.194150. MITRA INDUSTRIES LIMITED, A-181, OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI: -110 020. "-DRAINAGE BAG" 21.01.2004	
Class	24-99	No.194149. MITRA INDUSTRIES LIMITED, A-181, OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI: -110 020. "PRIMARY BAG" 21.01.2004	

Class	24-99	No.194159. J. MITRA & COMPANY, A-180, OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI: -110 020. "MICROCUVETTE" 21.01.2004	
Class	24-99	No.194158. J. MITRA & COMPANY, A-180, OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI: -110 020. "ENZYME IMMUNO ASSAY COMB" 21.01.2004	
Class	06-11	No.194321. S.N. KAPOOR EXPORTS, KHAWASHJI KA BAGH, AMER ROAD, JAIPUR - 302 002, RAJASTHAN, (INDIA). 'CARPET' 16.01.2004	
Class	06-11	No.194322. S.N. KAPOOR EXPORTS, KHAWASHJI KA BAGH, AMER ROAD, JAIPUR - 302 002, RAJASTHAN, (INDIA). 'CARPET' 16.01.2004	
Class	06-11	No.194323. S.N. KAPOOR EXPORTS, KHAWASHJI KA BAGH, AMER ROAD, JAIPUR - 302 002, RAJASTHAN, (INDIA). 'CARPET' 16.01.2004	

Class	31-00	No.193538. KONINKLIJKE PHILIPS ELECTRONICS N.V., GROENEWOUDSEWEG 1, 5621 BA EINDHOVEN, THE NETHERLANDS. "MIXER GRINDER" 15.10.2003	
Class	08-07	No.192838. MR. SURESH MARUTI MORE. (INDIAN NATIONAL) OF ENOPACK SEALS (INDIA), 102, SUKH SHANTI ASHRAM, BORIVALI(W), MUMBAI: -400 103. "SEAL" 11.08.2003	
Class	13-03	No.193901. KISHORE INDUSTRIES, 143, ASHIRWAD INDUSTRIAL ESTATE, BLDG. NO.5, 1 <sup>ST</sup> FLOOR, RAM MANDIR ROAD, GOREGAON(W), MUMBAI:-400 104, MAHARASHTRA, (INDIA), "SWITCH SOCKET WITH INDICATORE" 26.08.2003	

Dr. S. N. MAITY  
Controller General of Patents, Designs & Trade Marks